CLAIMS

1. A terminal, comprising:

a receiver that receives a demodulation reference signal; and

a processor that controls reception of the demodulation reference signal based on a parameter related to mapping of the demodulation reference signal,

wherein when the parameter is configured to a specific value, a specific multiplexing method for the demodulation reference signal is supported,

wherein the parameter is at least one of a port number of the demodulation reference signal and a number of symbols to which the demodulation reference signal is mapped, and

wherein the parameter is determined based on a relationship between an index for specifying the parameter and a number of codewords.

2. The terminal according to claim 1, wherein

when the parameter is configured to the specific value, frequency multiplexing between the demodulation reference signal and a data signal is supported.

3. A terminal, comprising:

a receiver that receives a demodulation reference signal; and

a processor that controls reception of the demodulation reference signal based on a parameter related to mapping of the demodulation reference signal,

wherein when the parameter is configured to a specific value, a second multiplexing method between the demodulation reference signal and a data signal is supported,

wherein the parameter is a port number of the demodulation reference signal, and

wherein when the port number of the demodulation reference signal is configured to the specific value, the second multiplexing method between the demodulation reference signal and the data signal is supported, the second multiplexing method being other than a

frequency multiplexing method between the demodulation reference signal and the data signal.

4. The terminal according to claim 1, wherein

power of the demodulation reference signal in a case where frequency multiplexing between the demodulation reference signal and a data signal is not supported is greater than power of the demodulation reference signal in a case where the frequency multiplexing between the demodulation reference signal and the data signal is supported.

5. A terminal, comprising:

a receiver that receives a demodulation reference signal; and

a processor that controls reception of the demodulation reference signal based on a parameter related to mapping of the demodulation reference signal, wherein

when the parameter is configured to a specific value, a specific multiplexing method for the demodulation reference signal is supported, and

when a number of ports for the demodulation reference signal is configured to 2 and a number of symbols to which the demodulation reference signal is mapped is configured to 2, multiplexing between a plurality of the demodulation reference signals by code division multiplexing method in frequency direction is supported.

6. A radio communication system, comprising:

a base station including:

a transmitter that transmits a demodulation reference signal, and

a terminal including:

a receiver that receives the demodulation reference signal; and

a processor that controls reception of the demodulation reference signal based

on a parameter related to mapping of the demodulation reference signal,

wherein when the parameter is configured to a specific value, a specific multiplexing method for the demodulation reference signal is supported,

wherein the parameter is at least one of a port number of the demodulation reference signal and a number of symbols to which the demodulation reference signal is mapped, and

wherein the parameter is determined based on a relationship between an index for specifying the parameter and a number of codewords.

7. A radio communication method, comprising:

receiving a demodulation reference signal; and

controlling reception of the demodulation reference signal based on a parameter related to mapping of the demodulation reference signal, wherein when the parameter is configured to a specific value, a specific multiplexing method for the demodulation reference signal is supported,

wherein the parameter is at least one of a port number of the demodulation reference signal and a number of symbols to which the demodulation reference signal is mapped, and

wherein the parameter is determined based on a relationship between an index for specifying the parameter and a number of codewords.