

ABSTRACT

A bias of reception qualities between spatial streams to a plurality of terminal devices is suppressed in a multiuser MIMO transmission. A
5 wireless communication device according to the invention is one for performing a spatial multiplexing transmission to the plurality of terminal devices, that includes an additional data area setting section that allocates, as an additional data area, a part of a resource allocation area to which no data addressed to each terminal device of the plurality of terminal devices is
10 allocated among resource allocation areas for the spatial multiplexing transmission which are allocated to each terminal device of the plurality of terminal devices, an additional data generator that generates additional data corresponding to the additional data area allocated by the additional data area setting section, and a transmitter that transmits the data which is
15 addressed to each of the plurality of terminal devices and the additional data.