ABSTRACT

This application relates to the field of communication technologies, and discloses a communication method, apparatus, and system. The method includes: A first communication apparatus generates one or more OFDM symbols in a radio frame, and sends the one or more OFDM symbols on a first channel in a first band. A subcarrier spacing of the first channel is 2^N times a subcarrier spacing of a second channel in a second band, the subcarrier spacing of the second channel is 480 kilohertz kHz, and a lowest frequency of the first band is higher than a highest frequency of the second band. A bandwidth of the second channel is 2^P*20 megahertz MHz, and a bandwidth of the first channel is 2^N*2^P*20 MHz. According to the foregoing method, a parameter in a high-frequency band is designed based on a parameter in a low-frequency band, so that a subcarrier spacing of the high-frequency band is greater than a subcarrier spacing of the low-frequency band, thereby overcoming adverse effects such as more pronounced phase noise in the high-frequency band, and improving transmission performance.