

**METHOD OF DETERMINING A DISTANCE BETWEEN NODES OF A
WIRELESS COMMUNICATION NETWORK**

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ABSTRACT

There is provided a method of determining a distance between nodes of a wireless communication network. The method includes performing a ranging operation for determining a distance between a first node of the wireless communication network and a
10 second node of the wireless communication network, whereby the ranging operation includes: transmitting, at the first node, a range request packet to the second node; and receiving, at the first node, a range reply packet from the second node in response to the range request packet. The method further includes determining the distance based on a response delay at the first node and a response delay at the second node in relation to the
15 ranging operation. The response delay at the second node corresponds to a time period between receiving the range request packet and transmitting the range reply packet, and the response delay at the first node corresponds to a time period between receiving the range reply packet and transmitting a subsequent range request packet to the second node in a subsequent ranging operation. There is also provided a corresponding wireless
20 communication device and a system.

FIG. 5