

ABSTRACT

According to an embodiment, a communication system includes a plurality of first communication control devices and a second communication control device. The first
5 communication control devices each includes a wireless communication unit and a controller. The wireless communication unit performs wireless communication. When receiving data to be transmitted via the wireless communication unit from the first device to the second
10 device, the controller determines a communication path in the mesh network for transmission of the data to the network communication network from the first communication control device that receives the data, performs mutual authentication with the second communication control device
15 communicating via the communication path and the network communication network, and thereafter transmits encrypted data obtained by encrypting the data to the second communication control device.