

ABSTRACT

In order to enable a device wirelessly connected to a public network to accurately measure a round trip time used to calculate the actual bandwidth of a communication channel, a portable terminal is wirelessly connected to the Internet, and communicates with a service server connected to the Internet through a prescribed communication channel. After repeatedly measuring the time since a dummy packet is transmitted to the service server until an acknowledgement packet is received, the portable terminal calculates a pattern composed of only a low-frequency component included in a pattern of variations in measured value (S115 to S117), and acquires a round trip time RTT, which is used to calculate the actual bandwidth BW of the communication channel, on the basis of the calculated pattern (S118). The actual bandwidth BW calculated from the round trip time is provided to the service server, and used for congestion control.