

A B S T R A C T

A base station (202) receives, from mobile stations (203₁ - 203_N), notifications of transmission and reception powers thereof, which are input to a failure detecting part (218) together with the
5 information about transmission and reception powers of the main device for the mobile stations. The failure detecting part (218) obtains upstream and downstream propagation losses of each one of propagation paths (204₁ - 204_N). When the difference between those losses
10 exceeds a predetermined tolerance, the failure detecting part (218) determines, based on such an exceeding difference, which one of the transmitters or receivers has a failure. In this way, there is no need to provide any special circuit for detecting a failure of a
15 transmitter or receiver.