## **Development of Communication Network Simulator for Train Control System Using Radio Communication**

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In order to support designing a suitable communication network on a train control system using radio communication, we have developed a communication network simulator for evaluating a transmission quality of communication network with due consideration on a quality of radio data transmission in a railway line environment. We have constructed a basic communication network, consisting of one ground equipment and two radio stations, and then evaluated the train control system performance of data transmission delay and a continuity of system operation. The result of development is reported in this paper.