

ABSTRACT**TIME SYNCHRONIZATION SYSTEM AND TIME SYNCHRONIZATION METHOD
IN TRAIN**

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Communication functions in an inter-vehicle network that connects monitoring and control devices and an intra-vehicle network that couples an in-vehicle device mounted on each of vehicles and each of the monitoring and control
10 devices are utilized. A train clock station that is ranked at an uppermost in a hierarchical structure and a vehicle clock station that is ranked in a middle in the hierarchical structure are set from among the monitoring and control devices. Other devices are set as a correction
15 information waiting station that is ranked at a lowermost in the hierarchical structure. The train clock station appropriately performs a time correction of the own station with time information that is arbitrarily obtained as the reference time. The vehicle clock station performs a time
20 correction of the own station based on a time-correction-information message transmitted from the train clock station. The correction information waiting station performs a time correction of the own station based on a time-correction-information message transmitted from the
25 vehicle clock station.

Fig. 5