common command code to a plurality of the second communication devices is fixed is different from a predefined format, an error that has occurred in the data.

32. The communication device according to claim 1, wherein the first communication device sets a parity bit, which is transmitted following a second word of the frame, in such a manner that two words from the head of the frame are included in a target of error detection using the parity bit.

33. The communication device according to claim 32, wherein by using an error detection method of performing parity check with respect to a bit stream of the two words from the head of the frame by using the parity bit transmitted following the second word from the head of the frame, the error detection unit of the second communication device detects an error that has occurred in the two words.

34. The communication device according to claim 1, wherein by using an error detection method of confirming, in a period after dynamic address assignment is started until termination of communication is detected, whether a bit stream predefined to be transmitted as one word transmitted immediately after communication is re-started continuously without termination of the communication is arranged in the one word, the error detection unit of the second communication device detects an error that has occurred in the one word.

35. The communication device according to claim 1, wherein the error detection unit detects, by using an error detection method of confirming whether a format of data transmitted after a transaction of transmitting a common command code to a plurality of the other communication devices is fixed is different from a predefined format, an error that has occurred in the data.

36. The communication device according to claim 1, wherein the error detection unit of the second communication device detects, by using an error detection method of constantly monitoring at timing at which a signal is delivered from the second communication device whether the delivered signal matches a signal on the bus, an error that has occurred in the signal.

37. The communication device according to claim 1, further comprising a current monitoring circuit configured to monitor a current flowing in a signal line that outputs a signal from the communication device,

wherein the error detection unit detects, by using an error detection method of confirming at timing at which a signal is delivered from the communication device itself whether the delivered signal matches a signal on the bus on the basis of the current constantly monitored by the current monitoring circuit, an error that has occurred in the signal.