CLAIMS

1. An IC card comprising:

a communication interface communicating with an IC card processing apparatus;

a processor transmitting extended format support information indicating whether an extended format is supported for each of commands to the IC card processing apparatus; and

a non-volatile memory storing the extended format support information in advance, wherein

the processor reads the extended format support information from the non-volatile memory, adds the extended format support information to information to be transmitted to the IC card processing apparatus with the communication interface, and transmits the information.

2. The IC card according to claim 1, wherein the processor transmits the extended format support information indicating whether the extended format is supported for each of command groups each including a plurality of types of commands to the IC card processing apparatus.

3. The IC card according to claim 2, wherein the command groups are formed of a read command group, a write command group, an authentication command group, and an other command group.

4. The IC card according to claim 3, wherein

the read command group includes at least READ BINARY, READ RECORD (S), and GET DATA,

the write command group includes at least UPDATE BINARY, WRITE RECORD, APPEND RECORD, AND PUT DATA, and

the authentication command group includes at least INTERNAL AUTHENTICATE and EXTERNAL AUTHENTICATE.

5. The IC card according to claim 1, wherein the extended format support information further indicates whether the extended format of all the commands are supported and whether no extended format of all the commands are supported.

6. The IC card according to claim 1, wherein the processor adds the extended format support information to an initial response transmitted to the IC card processing apparatus when initial setting is executed between the IC card and the IC card processing apparatus.

7. The IC card according to claim 1, wherein the processor reads the extended format support information from the non-volatile memory in accordance with a read command from the IC card processing apparatus, and adds the read extended format support information to a response to the read command.

8. The IC card according to claim 1, wherein the processor selects an application in accordance with a select command from the IC card processing apparatus, reads the extended format support information from the non-volatile memory, and adds the read extended format support information to a response to the select command.

9. An IC card processing system comprising the IC card

according to one of claims 1 to 8 and an IC card processing apparatus processing the IC card,

the IC card processing apparatus including:

a card reader/writer (communication interface) communicating with the IC card; and

a processor switching, for each of commands, whether to use the extended format, on the basis of the extended format support information from the IC card.

10. A control program for an IC card processing apparatus executed in the IC card processing apparatus, the IC card processing apparatus processing an IC card and including a communication interface communicating with the IC card and a processor, wherein

the control program causes the processor to receive extended format support information indicating whether an extended format is supported for each of commands from the IC card, and switch, for each of the commands, whether to use the extended format, on the basis of the extended format support information.

11. A non-transitory computer-readable storage medium storing a program to cause a computer to execute:

receiving extended format support information indicating whether an extended format is supported for each of commands from an IC card; and

switching, for each of the commands, whether to use the extended format, on the basis of the extended format support information.