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(22)	Filing Date: August 6, 2001 (2001.8.6)	(72)	Inventor: Hiroshi Mashita c/o CANON INC. 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo
		(74)	Agent: 100090538 Patent Attorney Keizo Nishiyama (and another)

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(54) [Title of the Invention]

COMMUNICATION DEVICE AND INFORMATION PROCESSING DEVICE AND COMMUNICATION METHOD AND PROGRAM FOR IMPLEMENTING COMMUNICATION AND STORAGE MEDIUM STORING PROGRAM IN COMPUTER READABLE MANNER

(57) [Abstract]

[Problem to be Solved]

An object is to provide a communication device having a local wireless communication function but no public network connection function and being capable of communicating with a device on a public network without implementing

any special protocol. Another object is to provide a communication device having the local wireless communication function and the public network connection function and eliminating a need for a preliminarily built-in application program for controlling an other communication device.

[Solution]

A communication device communicates with an other communication device using a local wireless communication function and communicates with an information processing device using a public network connection function, allowing the other communication device and the information processing device to communicate with each other via the local wireless communication and the public network connection. The communication device also acquires an application program compatible with the other communication device from the information processing device via the public network connection and is thus capable of utilizing the acquired application program to process file data received from the other communication device via the local wireless communication.

[Claims for the Patent]

[Claim 1]

A communication system comprising a communication device, an information processing device, and an other communication device, wherein

the communication device includes a transmission means for transmitting information from the communication device,

the information processing device includes:

a determination means for determining an application program based on the transmitted information; and

a provision means for providing the determined application program to the other communication device, and

the other communication device includes a control means for controlling the communication device using the provided application program.

[Claim 2]

The communication system according to claim 1, wherein

the communication device is a digital camera.

[Claim 3]

The communication system according to claim 1, wherein

the information processing device is a server.

[Claim 4]

The communication system according to claim 1, wherein

the other communication device is a cellular phone.

[Claim 5]

A communication device comprising:

a reception means for receiving an application program determined in accordance with information from an other communication device; and

a control means for controlling the other communication device via the received application program.

[Claim 6]

The communication device according to claim 5, wherein

the reception means receives the application program from an information processing device capable of communicating with the reception means.

[Claim 7]

The communication device according to claim 5, wherein

the communication device relays communication with the other communication device and communication with an information processing device determining the application program.

[Claim 8]

The communication device according to claim 5, wherein

the communication device transmits the information from the other communication device to an information processing device determining the application program.

[Claim 9]

The communication device according to claim 5, wherein

the communication with the other communication device and the communication with the information processing device are controlled using different protocols.

[Claim 10]

The communication device according to claim 5, wherein

the communication with the other communication device is Bluetooth communication, and the communication with the information processing device is public wireless communication.

[Claim 11]

The communication device according to claim 5, wherein

the control means uses the received application program to process file data received from the other communication device.

[Claim 12]

The communication device according to claim 11, wherein

the process is transfer of the file data.

[Claim 13]

The communication device according to claim 5, wherein

the information from the other communication device is information about at least one of a model name, a manufacturer's serial number, a manufacturer name, a software version, and a physical address for communication for the other communication device.

[Claim 14]

A communication device comprising:

a first communication means for communicating with an other communication device using a first protocol; and

a second communication means for communicating with an information processing device using a second protocol, wherein

information from the other communication device is transmitted to the information processing device by being relayed by the first communication means and the second communication means.

[Claim 15]

The communication device according to claim 14, wherein

the first protocol is for Bluetooth communication, and the second protocol is a protocol for public wireless communication.

[Claim 16]

The communication device according to claim 14, wherein

the information from the other communication device is information about at least one of a model name, a manufacturer's serial number, a manufacturer name, a software version, and a physical address for communication for the other communication device.

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