CLAIMS

1. A service providing system characterized by comprising a server device configured to provide a service to a vehicle via a telecommunication line, the server device including:

a service map creation unit configured to acquire, from the vehicle, information on a communication standard and a service that are being used and position information, and to create a service map indicating a communication standard and a service that are usable in a communication area, at least partly based on the information on the communication standard and the service and the position information; and

a vehicle control unit configured to control content of the service provided to the vehicle using the service map created by the service map creation unit,

wherein the server device is configured to determine a service that is allowed to be provided in the communication area, based on the communication standard in the communication area and a communication speed of the communication standard.

2. The service providing system according to claim 1, wherein the vehicle control unit is configured to notify the vehicle that autonomous driving control is not performed when it is determined, based on the service map, that the vehicle is located in a communication area where a communication standard necessary for the autonomous driving control is not allowed to be used.

3. The service providing system according to claim 2, wherein the server device is configured to provide the service to the vehicle provided with a control unit, the control unit performing, in response to notification from the server device that the autonomous driving control is not performed, the autonomous driving control using road information acquired in advance and information on surroundings of the vehicle.

4. The service providing system according to claim 1, wherein the service map creation unit is configured to receive, from the vehicle, information on a communication speed of the communication standard that is being used.

5. The service providing system according to claim 1, wherein:

the service includes autonomous driving control of the vehicle; and

the server device is configured to notify the vehicle that the autonomous driving control is not performed when it is determined, based on the service map, that the vehicle travels in an area where the autonomous driving control is not allowed to be performed.

6. The service providing system according to claim 1, wherein the server device is configured to receive, from the vehicle, feedback on whether the service has been allowed to be performed in the communication area, and determine the service that is allowed to be provided in the communication area based on the feedback.

7. The service providing system according to claim 1, wherein the service map creation unit is configured to determine a communication area for which the service map has not been updated for a predetermined period or more as an area where the service is not allowed to be provided.

8. A vehicle characterized by comprising:

a position information acquisition unit configured to acquire position information of the vehicle;

a communication unit configured to communicate with a server device outside the vehicle to receive information on a service provided from the server device; and

a control unit configured to acquire information on a communication standard that is being used by the communication unit, wherein

the control unit is configured to create a service map indicating a communication

standard and a service that are usable in an area where the vehicle has traveled based on the position information and the information on the communication standard, and to transmit the service map to the server device through the communication unit,

wherein the server device is configured to determine a service that is allowed to be provided in the communication area, based on the communication standard in the communication area and a communication speed of the communication standard.

9. A method for providing a service, the method characterized by comprising:

acquiring, with a server device, information on a communication standard and a service that are being used and position information from a vehicle;

creating, in the server device, a service map indicating a communication standard and a service that are usable in a communication area, at least partly based on the information on the communication standard and the service and the position information; and

controlling, with the server device, content of a service provided to the vehicle using the service map,

wherein the server device is configured to determine a service that is allowed to be provided in the communication area, based on the communication standard in the communication area and a communication speed of the communication standard.