CLAIMS

What is claimed is:

1. A system comprising:

a mobile device of a user connected to a wireless network;

one or more master sensor nodes connected to the wireless network; and

a plurality of sensors in communication with the one or more master sensor nodes over the wireless network;

the mobile device configured to download an application from a cloud-based registration service, the application operable to:

register the mobile device to the cloud-based registration service,

allow the user to search for a service provider, wherein the service provider is independent from the cloud-based registration service and is associated with the one or more master sensor nodes and the plurality of sensors,

verify an identity of the mobile device,

allow the user to create a reservation with the service provider, and

send the reservation and the identification of the mobile device to the one or more master nodes via the cloud-based registration service;

the one or more master sensor nodes configured to:

receive the reservation and the identification from the cloud-based registration service,

identify a location associated with the mobile device,and

determine that the mobile device is within a predefined distance from one of the plurality of sensors or from the one or more master sensor nodes,

the plurality of sensors configured to:

scan for the mobile device when the mobile device is within the predefined distance,

detect the mobile device,

retrieve the reservation from the master sensor node,

receive a request from the mobile device to authenticate the identity of the mobile device as being associated with the reservation and to provide authentication of the service provider to the mobile device as being associated with the reservation,

authenticate the mobile device as being associated with the reservation,

send authentication of the service provider as being associated with the reservation to the mobile device, and

provide the mobile device access to a second network connection associated with the service provider.

2. The system of claim 1, wherein the location comprises latitude and longitude coordinates.

3. The system of claim 1, wherein the service provider is an online gaming provider.

4. The system of claim 1, wherein the service provider is an e-commerce provider.

5. The system of claim 1, wherein the one or more master sensor nodes has been calibrated.

6. The system of claim 5, wherein the calibration is based on at least a location of the one or more master sensor nodes.

7. A method comprising:

providing one or more master sensor nodes communicatively coupled to a mobile device of a user over a wireless network;

providing a plurality of sensors in communication with the one or more master sensor nodes over the wireless network;

registering, by an independent cloud-based registration service, a service provider associated with the one or more master sensor nodes and the plurality of sensors, wherein the mobile device is registered with the cloud-based registration service, and wherein the cloud-based registration service identifies the mobile device and allows the user to search for the service provider and create a reservation with the service provider;

receiving, at the one or more master sensor nodes by the cloud-based registration service, the identification of the mobile device and the reservation;

identifying, by the one or more master sensor nodes, a location associated with the mobile device;

determining, by the one or more master sensor nodes, that the mobile device is within a predefined distance from one of the plurality of sensors or from the one or more master sensor nodes;

scanning, for the mobile device when the mobile device is within the predefined distance;

detecting, by the plurality of sensors, the mobile device;

retrieving, by the plurality of sensors, the reservation from the master sensor node;

receiving, by the plurality of sensors, a request from the mobile device to authenticate the identity of the mobile device as being associated with the reservation and to provide authentication of the service provider to the mobile device as being associated with the reservation;

authenticating, by the plurality of sensors, the mobile device as being associated with the reservation;

sending, by the plurality of sensors, authentication of the service provider as being associated with the reservation to the mobile device; and

providing the mobile device access to a second network connection associated with the service provider.

8. The method of claim 7, wherein the location comprises latitude and longitude coordinates.

9. The method of claim 7, wherein the service provider is an online gaming provider.

10. The method of claim 7, wherein the service provider is an e-commerce provider.

11. The method of claim 7, wherein the one or more master sensor nodes has been calibrated.

12. The method of claim 11, wherein the calibration is based on at least a location of the one or more master sensor nodes.

13. A system comprising:

a mobile device of a user connected to a wireless network;

one or more calibrated master sensor nodes connected to the wireless network; and

a plurality of sensors in communication with the one or more master sensor nodes over the wireless network;

the mobile device configured to download an application from a cloud-based registration service, the application operable to:

register the mobile device to the cloud-based registration service,

allow the user to search for a service provider, wherein the service provider is independent from the cloud-based registration service and is associated with the one or more master sensor nodes and the plurality of sensors,

verify an identity of the mobile device,

allow the user to create a reservation with the service provider,

send the reservation and the identification of the mobile device to the one or more master nodes via the cloud-based registration service;

the one or more master sensor nodes configured to:

identify a location associated with the mobile device,

determine an estimated time of arrival of the mobile device to the service provider;

receive the reservation, and the identification, location, and the estimated time of arrival of the mobile device from the cloud-based registration service,

determine that the mobile device is within a predefined distance from one of the plurality of sensors or from the one or more master sensor nodes,

the plurality of sensors configured to:

scan for the mobile device when the mobile device is within the predefined distance,

detect the mobile device,

retrieve the reservation from the master sensor node,

receive a request from the mobile device to authenticate the identity of the mobile device as being associated with the reservation and to provide authentication of the service provider to the mobile device as being associated with the reservation,

authenticate the mobile device as being associated with the reservation,

send authentication of the service provider as being associated with the reservation to the mobile device, and

provide the mobile device access to a second network connection associated with the service provider.

14. The system of claim 13, wherein the service provider is an online gaming provider.

15. The system of claim 13, wherein the service provider is an e-commerce provider.

16. The system of claim 13, wherein the calibration of the one or more master sensor nodes is based on at least a location of the one or more master sensor nodes.

17. The system of claim 13, wherein one or more master nodes are IOT radio frequency actuator nodes.

18. The system of claim 13, wherein the plurality of sensors is further configured to require at least one additional factor from the mobile device before authenticating the mobile device to the service provider.

19. The system of claim 5, wherein the one or more master sensor nodes has been calibrated by:

moving the one or more master sensor nodes to an obstruction-free location,

obtaining a first location of the one or more master sensor nodes, and

seating the one or more master sensor nodes in a second location associated with the service provider within a predetermined amount of time.

20. The system of claim 19, wherein the one or more master sensor nodes maintains a calibrated status until the one or more master sensor nodes is moved from the second location.

21. The system of claim 1, wherein the service provider is a physical property delivering streaming or downloadable content.

22. The system of claim 21, wherein the service provider is one of a casino, a movie theater, and a concert hall.

23. The method of claim 7, wherein the service provider is a physical property delivering streaming or downloadable content.

24. The method of claim 23, wherein the service provider is one of a casino, a movie theater, and a concert hall.

25. The system of claim 13, wherein the service provider is a physical property delivering streaming or downloadable content.

26. The system of claim 25, wherein the service provider is one of a casino, a movie theater, and a concert hall.

27. The system of claim 13, wherein one or more of the plurality of sensors are IoT radio frequency actuator nodes.