

## CLAIMS

1. A method of wireless communication, the method comprising:  
generating a communication that includes attribute indications corresponding to a plurality of attributes of a transmitting device; and  
transmitting the communication wirelessly from the transmitting device;  
wherein the attribute indications include:
  - a device identity of the transmitting device;
  - a mobility indication identifying the transmitting device as mobile, indicating that a location of the transmitting device is likely to change, or static, indicating that the location of the transmitting device is unlikely to change;
  - a location indication indicative of the location of the transmitting device and associated with the mobility indication by the communication; and
  - a privacy indication associated with a corresponding attribute of the transmitting device, the privacy indication indicating whether a receiving device that receives the attribute indications from the transmitting device is authorized to transmit information regarding the corresponding attribute of the transmitting device.
2. The method of claim 1, wherein the privacy indication indicates whether at least one other device in addition to the receiving device will be authorized to transmit information regarding the corresponding attribute.
3. The method of claim 1, wherein the attribute indications further include an indication of:
  - an identity of an attribute, of the plurality of attributes of the transmitting device, for which an indication is not being transmitted by the transmitting device; or
  - a list of one or more trusted devices associated with the transmitting device; or
  - a round-trip time associated with another device; or
  - an angle of arrival of a signal at the transmitting device; or
  - a supported ranging protocol; or
  - a ranging uncertainty; or

a location uncertainty; or  
a neighbor list indicative of access points neighboring the transmitting device; or  
a neighbor list history; or  
whether the transmitting device may be presented on a map; or  
whether angle-of-arrival determinations are supported; or  
a combination thereof.

4. The method of claim 1, wherein generating the communication comprises generating the communication with a further attribute indication in addition to the device identity, the mobility indication, the location indication, and the privacy indication, the inclusion of the further attribute indication in the communication, or a value of the further attribute indication, or both, being based on a time, a location of the transmitting device, or a combination thereof.

5. The method of claim 1, wherein the transmitting device is a first device, the method further comprising at the first device:

receiving a request from a second device for a location of a third device;  
transmitting the request for the location of the third device;  
receiving a reply from the third device; and  
transmitting a message to the second device, the message including an indication of the location of the third device.

6. The method of claim 5, wherein the indication of the location of the third device comprises a distance from the first device to the third device.

7. The method of claim 1, wherein the transmitting device is a first device, the method further comprising the first device:

receiving a point-of-interest name associated with a second device; and  
storing, in a memory of the first device, the point-of-interest name associated with the second device as an indication of the location of the first device.

8. The method of claim 1, further comprising the transmitting device:  
receiving a mapping of point-of-interest names and associated geographic locations;  
determining which of the geographic locations corresponds to the location of the transmitting device; and  
storing, in a memory of the transmitting device as an indication of the location of the transmitting device, the point-of-interest name associated with the geographic location that corresponds to the location of the transmitting device.

9. The method of claim 1, the transmitting device being a first device, the method further comprising the first device:  
receiving an indication from a second device that the second device is a static device, and thus that a location of the second device is unlikely to change;  
determining that the location of the second device relative to the first device has changed;  
and  
transmitting an indication that the location of the second device relative to the first device has changed.

10. A device comprising:  
means for generating a communication that includes attribute indications corresponding to a plurality of attributes of the device; and  
means for transmitting the communication wirelessly from the device;  
wherein the attribute indications include:  
a device identity of the device;  
a mobility indication identifying the device as mobile, indicating that a location of the device is likely to change, or static, indicating that the location of the device is unlikely to change;  
a location indication indicative of the location of the device and associated with the mobility indication by the communication; and  
a privacy indication associated with a corresponding attribute of the device, the device being a first device, the privacy indication indicating whether a receiving device that receives the attribute indications from the first device is authorized to transmit information

regarding the corresponding attribute of the first device.

11. The device of claim 10, wherein the means for generating the communication are for generating the privacy indication to indicate whether a second device in addition to the receiving device is authorized to transmit information regarding the corresponding attribute.

12. The device of claim 10, wherein the attribute indications further include an indication of:

an identity of an attribute, of the plurality of attributes of the first device, for which an indication is not being transmitted by the first device; or

a list of one or more trusted devices associated with the first device; or

a round-trip time associated with another device; or

an angle of arrival of a signal at the first device; or

a supported ranging protocol; or

a ranging uncertainty; or

a location uncertainty; or

a neighbor list indicative of access points neighboring the first device; or

a neighbor list history; or

whether the first device may be presented on a map; or

whether angle-of-arrival determinations are supported; or

a combination thereof.

13. The device of claim 10, wherein the means for generating the communication comprise means for generating the communication with a further attribute indication in addition to the device identity, the mobility indication, the location indication, and the privacy indication, the means for generating being configured to include the further attribute indication in the communication, or to determine a value of the further attribute indication, or both, based on a time, a location of the first device, or a combination thereof.

14. The device of claim 10, further comprising:

means for receiving a request from a second device for a location of a third device;

means for transmitting the request for the location of the third device;  
means for receiving a reply from the third device;  
means for determining a distance to the third device from the first device; and  
means for transmitting a message to the second device, the message including an indication of the distance of the third device from the first device.

15. The device of claim 10, further comprising:  
means for receiving a point-of-interest name associated with a second device; and  
means for storing the point-of-interest name associated with the second device as an indication of the location of the first device.

16. The device of claim 10, further comprising:  
means for receiving a mapping of point-of-interest names and associated geographic locations;  
means for determining which of the geographic locations corresponds to the location of the first device; and  
means for storing, as an indication of the location of the first device, the point-of-interest name associated with the geographic location that corresponds to the location of the first device.

17. A device comprising:  
a processor configured to generate a communication that includes attribute indications corresponding to a plurality of attributes of the device; and  
a transceiver, communicatively coupled to the processor, configured to transmit the communication wirelessly from the device;  
wherein the attribute indications include:  
a device identity of the device;  
a mobility indication identifying the device as mobile, indicating that a location of the device is likely to change, or static, indicating that the location of the device is unlikely to change;  
a location indication indicative of the location of the device and associated with the mobility indication by the communication; and

a privacy indication associated with a corresponding attribute of the device, the device being a first device, the privacy indication indicating whether a receiving device that receives the attribute indications from the first device is authorized to transmit information regarding the corresponding attribute of the first device.

18. The device of claim 17, wherein the processor is configured to generate the privacy indication to indicate whether at least one other device in addition to the receiving device is authorized to transmit information regarding the corresponding attribute.

19. The device of claim 17, wherein the attribute indications further include an indication of:

an identity of an attribute, of the plurality of attributes of the first device, for which an indication is not being transmitted by the first device; or

a list of one or more trusted devices associated with the first device; or

a round-trip time associated with another device; or

an angle of arrival of a signal at the first device; or

a supported ranging protocol; or

a ranging uncertainty; or

a location uncertainty; or

a neighbor list indicative of access points neighboring the first device; or

a neighbor list history; or

whether the first device may be presented on a map; or

whether angle-of-arrival determinations are supported; or

a combination thereof.

20. The device of claim 17, wherein the processor is configured to generate the communication with a further attribute indication in addition to the device identity, the mobility indication, the location indication, and the privacy indication, the processor being configured to include the further attribute indication in the communication, or to determine a value of the further attribute indication, or both, based on a time, a location of the first device, or a combination thereof.

21. The device of claim 17, wherein the processor is further configured to:  
receive, via the transceiver, a request from a second device for a location of a third device;  
transmit, via the transceiver, the request for the location of the third device;  
receive, via the transceiver, a reply from the third device;  
determine a distance to the third device from the first device; and  
transmit, via the transceiver, a message to the second device, the message including an indication of the distance of the third device from the first device.

22. The device of claim 17, wherein the processor is further configured to:  
receive, via the transceiver, a point-of-interest name associated with a second device; and  
store, in a memory of the first device, the point-of-interest name associated with the second device as an indication of the location of the first device.

23. The device of claim 17, wherein the processor is further configured to:  
receive, via the transceiver, a mapping of point-of-interest names and associated geographic locations;  
determine which of the geographic locations corresponds to the location of the first device; and  
store, in a memory of the first device, the point-of-interest name associated with the geographic location that corresponds to the location of the first device as an indication of the location of the first device.

24. A non-transitory storage medium storing processor-readable instructions configured to cause a processor of a device to:  
generate a communication that includes attribute indications corresponding to a plurality of attributes of the device; and  
transmit the communication wirelessly from the device;  
wherein the attribute indications include:  
a device identity of the device;

a mobility indication identifying the device as mobile, indicating that a location of the device is likely to change, or static, indicating that the location of the device is unlikely to change;

a location indication indicative of the location of the device and associated with the mobility indication by the communication; and

a privacy indication associated with a corresponding attribute of the device, the device being a first device, the privacy indication indicating whether a receiving device that receives the attribute indications from the first device is authorized to transmit information regarding the corresponding attribute of the first device.

25. The storage medium of claim 24, wherein the instructions for causing the processor to generate the communication are configured to cause the processor to generate the privacy indication to indicate whether at least one other device in addition to the receiving device will be authorized to transmit information regarding the corresponding attribute.

26. The storage medium of claim 24, wherein the attribute indications further include an indication of:

an identity of an attribute, of the plurality of attributes of the first device, for which an indication is not being transmitted by the first device; or

a list of one or more trusted devices associated with the first device; or

a round-trip time associated with another device; or

an angle of arrival of a signal at the first device; or

a supported ranging protocol; or

a ranging uncertainty; or

a location uncertainty; or

a neighbor list indicative of access points neighboring the first device; or

a neighbor list history; or

whether the first device may be presented on a map; or

whether angle-of-arrival determinations are supported; or

a combination thereof.

27. The storage medium of claim 24, wherein the instructions for causing the processor to generate the communication are configured to cause the processor to generate the communication with a further attribute indication in addition to the device identity, the mobility indication, the location indication, and the privacy indication, the instructions for causing the processor to generate the communication are configured to cause the processor to include the further attribute indication in the communication, or to determine a value of the further attribute indication, or both, based on a time, a location of the first device, or a combination thereof.

28. The storage medium of claim 24, further comprising instructions configured to cause the processor to:

- receive a request from a second device for a location of a third device;
- transmit the request for the location of the third device;
- receive a reply from the third device;
- determine a distance to the third device from the first device; and
- transmit a message to the second device, the message including an indication of the distance of the third device from the first device.

29. The storage medium of claim 24, further comprising instructions configured to cause the processor to:

- receive a point-of-interest name associated with a second device; and
- store the point-of-interest name associated with the second device as an indication of the location of the first device.

30. The storage medium of claim 24, further comprising instructions configured to cause the processor to:

- receive a mapping of point-of-interest names and associated geographic locations;
- determine which of the geographic locations corresponds to the location of the first device; and
- store, as an indication of the location of the first device, the point-of-interest name associated with the geographic location that corresponds to the location of the first device.

31. The method of claim 1, wherein the transmitting device comprises a first transmitting device, the method further comprising:

receiving a second communication, from a second transmitting device, comprising second attribute indications corresponding to the second transmitting device, the second attribute indications comprising a mobility indication identifying the second transmitting device as mobile, indicating that a location of the second transmitting device is likely to change, or static, indicating that the location of the second transmitting device is unlikely to change;

determining that a location of the second transmitting device relative to a location of the first transmitting device has changed; and

transmitting an indication that the location of the second transmitting device relative to the location of the first transmitting device has changed.