

Tracking Systems

Software & Hardware

Terms and Definitions

- **Crowdsourcing** - The act of collecting content through the contribution of a large group of people
- **Geofencing** - A location-based technology that create virtual boundaries around a specific area and triggers action when a device enters or exits that area
- **Tagging**- A specific location
- **Ultra Wide Band (UWB)** - A wireless communication technology that uses a wide bandwidth to transmit data over short ranges. Example: high precision ranging.
- **Bluetooth** - Short range wireless technology

Tracking Software (Apps)

- Google “Find My Device”
- Samsung “ Smartthings Find”
- Apples “ Find My”

Tracking Hardware

- Apple's "Air Tag" **iOS Only**
- Samsung's Smart Tag 2 **One UI Only**
- Pebblebee Clip Universal **iOS & Android**



Apple's Find My Features

Bluetooth (30 feet)

UWB (200 feet)

Geofence (30 feet)

Tracking Default - Crowd Sourcing (On)

Samsung Smartthings Find

Bluetooth (30 feet)

UWB (30 to 600 feet)

Geofence (100 feet)

Tracking Default - Crowdsourcing (On)

Google's Find My Device

Bluetooth (30 feet)

UWB (30 to 600 feet)

Geofencing (100 feet)

Tracking Default (Crowdsourcing) Off

Why these Three Apps and Tags

Google's Find My Device is the largest network of phones world wide (crowdsourcing)

Samsung's Smartthings is 2nd largest network of phones world wide (crowdsourcing)

Apple's Find My is 3rd largest network of phones world wide (crowdsourcing)

My Experience

Locations

California

Nevada

Arizona

Utah

International

My Experience

Apple's Find My and Samsung Smartthing Find networks work equally well, because crowdsourcing is always on.

Google's Find My Device did not perform very well, because Crowdsourcing is turned off by default plus a confusing array of tracking features

Issues:

Rural Areas - Once out of Bluetooth range Crowdsourcing accuracy is reduced

Apple's Tracking System is falling behind in the tracking tag technology

My Use:

Two Dogs and a Cat (Geofencing) Pebblebee, Two Cars Samsung, Car Keys Air Tags