



# Advanced Asset Tracking

## Where are my assets right now?





# Advanced Asset Tracking = RFID

## RFID – Radio Frequency Identification

### Passive Solutions

- 15 to 20 foot max range
- No line of site needed
- Choke Point solutions

### Active Solutions

- RTLS – Real Time Locating Systems
- Display Assets on a map in real time
- Many technologies





# Active RFID Locating Methods

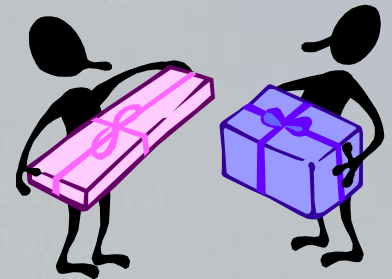
There are two major technologies used for “Real Time Locating”

RSSI – Received Signal Strength Indication

- Measures the power present in a received radio signal

TDOA – Time Difference of Arrival

- Measures the slight difference of signal arrival times to triangulate position.





# RSSI and TDOA Vendors

## RSSI

- Wavetrend
- All WiFi
  - AeroScout
  - Ekahau
- Zigbee

## TDOA

- Zebra Enterprise Solutions – WhereNet
- Zebra Enterprise Solutions – UWB (MSSI)





# RTLS Solutions

<http://www.abrfid.com/Solutions/rtls-Overview>





# Questions and Answers

