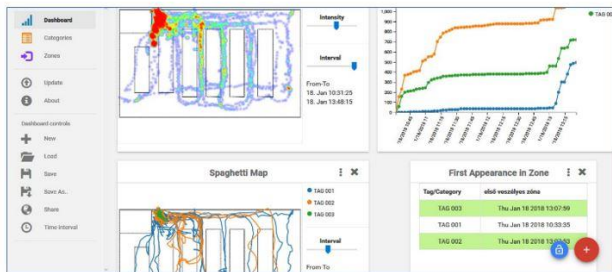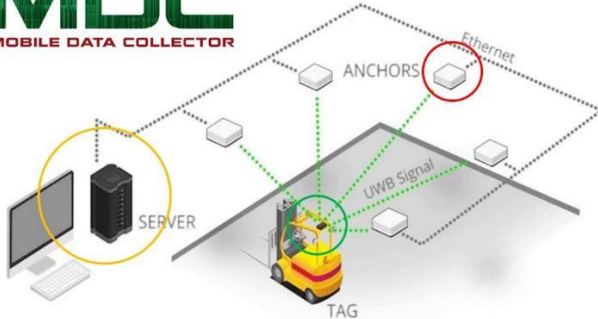# RTLS-AID / UWB
Part of CASC-AID

- Real Time location information of moving objects

- Developed for indoor applications

- High accuracy (~ 30 cm), X-Y-Z orientation

- Ultra Wide Band technology with TdoA (Time Difference of Arrival)

- Rugged, industrial solution

- Impressive, ROI based applications with increasing efficiency and stabile operation

- Transport ID / Goods ID / People ID
  - Transportation Track and Trace and Predict
  - Replenishment support
  - Safety solutions (e.g. Geofencing)
  - People Track and Trace in hazardous area …

- Localization data in SQL database

- ERP Integration (e.g. SAP)

- Human Friendly Visualization

Real Time Location System by Antra ID / UWB

Tags:
UWB Tag Piccolino (TP)
Rechargeable (IMU / Li-ion)

Size:
TP: 29 x 37 x 11 mm
IMU / Li-ion: 70 x 50 x 21 mm

Weight:
TP: 26 g
IMU / Li-ion: 25 g

Refresh Rate:
TP: 50 ms - 60 s
IMU / Li-ion: 10 ms - 60 s

Temperature Range:
0 - 50 °C

Battery Lifetime:
10 s - 5 years

1 s - 1 year

500 ms - 248 days

100 ms - 53 days

Battery Capacity:
TP: 600 mAh (CR2450)
IMU / Li-ion: 560 mAh

Sensors:
Accelerometer, Compass, Gyroscope, Barometer, Temperature

UWB Anchor:

Size:
70 x 74 x 25 mm

Weight:
72 g

Power:
1.5 W

Power Requirements:
USB DC 5V, ≈ 300mA
Passive PoE 48V, ≈ 30mA

Cable:
Max. length: 100 m (CAT5e)

Temperature Range:
0 - 50 °C

Radio Range:
15 - 50 m

UWB Antenna:
Omnidirectional

Option:
Wi-Fi Connection