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# Abstract

# Introduction

# Specification

## Theory of Operation

### Front end network

### Back end network

## Hardware

### Detector

### Tag

### Proxy

## Controller

## Locating Algorithm

## Web App

# Test Plan

## Unit Tests

## Hardware

### Power supply unit

### Tag

### Detector

### Proxy

## Software

### Controller

### Web App

### Database

## System Tests

### Test case 1:

1 Tag, 1 Detector, Serial

### Test Case 2:

1 Tag, 1 Detector, Proxy

### Test Case 3:

1 Tag, Multiple Detectors

### Test Case 4:

Multiple Tags, Multiple Detectors, Proxy, Database

## Acceptance Tests

### Test case 1:

10 Tags, 8 Detectors, Proxy, Controller, Web App

Accuracy Requirement Met?

Power Requirement Met?

Update Interval Requirement Met?

## Results

### Device dimensions

### Power consumption

### Accuracy

## Conclusions

### What we learned

### Good Decisions

### Bad Decisions

### Meeting our Expectations

### Meeting our Sponsors Expectations

### Group Dynamics

## Appendices

### Installation

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