Location Services

AB223 - Deep Dive on Using New Meridian Features

Adam Kuert
Meridian Engineering Director
Agenda

1. Overview
2. Multi-tenant Beacons
3. Geospatial Coordinates
4. Meridian Web SDK
5. Q & A
Overview

“Remind me again, what’s Meridian?”
Meridian Dataflow Diagram
Multi-tenant Beacons

Sharing beacon deployments between applications
Multi-tenant Beacons **Use Cases**

**Airport**
- Public facing app for travelers
- Internal airport app for staff
- 3rd-party apps for airport business

**Healthcare**
- Public facing hospital app for patients
- Internal hospital app for staff

**Large Public Venue**
- Public facing stadium app for sporting events
- Public facing stadium app for concerts
- Internal app for venue staff
Multi-tenant Beacons **Overview**

- **LOCATION BEACONS** that can be shared by one or more Meridian location
  - Proximity beacons and tags cannot be multi-tenant beacons
- Parent/Child deployment model
  - Deployed first on Parent location and then shared with Child location
  - Child location will inherit the location beacon and control point data of the Parent location
Multi-tenant Beacons Parent Constraints

Parent location can **ONLY** manage Parent location beacons.
Multi-tenant Beacons Child Constraints

Child location can ONLY manage Child location beacons
Multi-tenant Beacons Parent/Child Hierarchy

- Parent/Child locations must be in the same organization
- An organization may have only one Parent location
- An organization may have multiple Child locations
- No known upper limit of Child locations
Multi-tenant Beacons **Constraints**

- Child locations maps must match exact exterior dimensions of Parent location maps
  - The areas of use within can differ by Child location

- Parent’s location beacons and map control points are shared
  - Placemarks, routes, portals, and all other data are not shared

- Child locations can only manage their own location beacons
  - They cannot manage their Parent’s location beacons, map control points, or any other data

- Location Sharing is not supported for White-label apps, but possible with the our APIs
Multi-tenant Beacons: Example of a Parent/Child Floor

Name of Parent location

Parent floor name

Child floor name
Multi-tenant Beacons Licensing

- Requires purchase of additional MAPS license based on size of Child location(s)
  - On top of the MAPS licenses purchased for Parent location
  - BLUEDOT is included
- APPMAKER license is **not** included
- ASSET TRACKING deployments are **not** supported in Child locations
- CAMPAIGNS license is still an org-wide SKU that can be shared across all locations
  - Additional proximity beacons would need to be purchased
Multi-tenant Beacons FAQs

Can I start using this today?

Yes, but it is not enabled by default. Email customers@meridianapps.com to explore options.

If something is not working properly on the Child map, how do I make adjustments?

Contact the owner of the Parent location.

Can a Child map have different colors/logos/branding?

Yes, in fact this is one of the key benefits.
Geospatial Coordinates

Displaying Meridian data in the real world
Geospatial Coordinates

- Several Meridian APIs now support GeoJSON
  - Floors
  - Placemarks
  - Beacons
- Standard APIs include Lat/Lon coordinates
- Conversion is based on a floor’s *Map Control Points*
- Read only. Write not supported…yet
Meridian Web SDK

Simplifying third-party web application development
Meridian Web SDK

What is it?
Similar to our iOS and Android SDKs, the Web SDK is a wrapper library for our Maps and Asset Tracking APIs that makes it easier for customers to add Meridian maps, placemarks, and Aruba Tags in their standard web browser applications.

What use case could this support?
In a hospital setting with staff who do not have mobile devices, those staff could view asset locations in their web browser in order to retrieve those assets or determine asset distribution.

What are the solution limitations?
The Web SDK does not support blue dot or turn-by-turn directions. Directions could be added in the future, but blue dot is limited by the lack of Bluetooth support in modern web browsers.
Meridian Web SDK
In Summary

Using the suite of Meridian SDKs for iOS, Android, and now the Web, with the added deployment flexibility of our Multi-tenant Beacons offering, and a universal geospatial data format, Aruba Meridian is now better situated to empower you to build better indoor navigation experiences than it ever has been before.
### Conference sessions including location services

<table>
<thead>
<tr>
<th>Session</th>
<th>Description</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB224</td>
<td>Powering Better Indoor Location Experiences with Aruba Meridian</td>
<td>Wed</td>
<td>10am</td>
<td>E5.8</td>
</tr>
</tbody>
</table>
Download the Event App
Gain access to the latest event information.

Rate this session
Access this survey via the mobile app and let us know what you think.

Locate this session:
- Agenda
- Select Date
- Find this session
- Click Survey
Join the Airheads Community
Scan the QR code to sign up now!

Ask Aruba
- Session 1: Tuesday, 24 Sep, 2:00pm – 2:45pm
- Session 2: Wednesday, 25 Sep, 1:45pm – 2:30pm
- Location: Town Hall at Tech Playground

Submit your Ask Aruba questions using the mobile app now!

Scan. Play. Win.
Play Now! Switch your thinking, say goodbye to the old ways and get ready for new innovations.

Visit the Tech Playground now!
Thank You