

Territory Map Updates - November 15, 2025

Overview

Successfully completed all four requested map updates to enhance the Phoenix Territory Map application with Tucson branch support and territory boundary visualizations.

Changes Implemented

1. Tucson Branch Office Location Added

File Updated: /nextjs_space/public/office-locations.json

- **Added:** Tucson Office (Opening 2026)
- ZIP Code: 85749
- Coordinates: 32.2226066, -110.7672556
- Category: NEXT YEAR
- Area: Tucson

Impact: Tucson office now appears on ALL map views (Territory, Density, Market Size, Employee Locations, and Commercial Density)

2. Commercial Density Map - Zip Polygons Fixed

File Updated: /nextjs_space/components/commercial-density-map-view.tsx

What Was Fixed:

- Zip code polygons now render properly with commercial account density colors
- Enhanced polygon styling with better opacity and stroke settings
- Clear visual differentiation between density levels

Color Scale:

- 1 account: Light blue (#dbeafe)
- 2 accounts: Medium blue (#93c5fd)
- 3 accounts: Blue (#3b82f6)
- 4+ accounts: Deep blue (#1d4ed8)

3. Commercial Density Map - Territory Boundaries Added

File Updated: /nextjs_space/components/commercial-density-map-view.tsx

New Features:

- Added territory boundary overlays showing West, Central, East, and Tucson regions
- Boundaries render as colored outlines (no fill) for clear territory delineation
- Integrated with existing territory assignment data (phoenix-tucson-map-data.json)

Territory Colors:

- West: Blue (#3b82f6)
- Central: Green (#10b981)
- East: Orange (#f97316)
- Tucson: Pink (#ec4899)

4. Employee Locations Map - Territory Boundaries Added

File Updated: /nextjs_space/components/employee-map-view.tsx

New Features:

- Territory boundaries now displayed on employee locations map
- Boundaries match the same color scheme as other views for consistency
- Properly integrated with existing employee marker and office location rendering

Technical Implementation:

- Added territory assignment data loading
- Added zip boundaries GeoJSON data loading
- Implemented polygon rendering using native Google Maps API
- Created `convertGeometryToPaths()` helper function for GeoJSON conversion

5. Office Marker Updates Across All Views

Files Updated: All map view components

Improvements:

- Office markers now use color-coded stars matching their territory
- All NEXT YEAR (2026) offices display on all map views
- Consistent star symbol and sizing across all views
- Tucson office included with distinctive pink color

Map View Summary

Territory View

-  Shows Tucson office star
-  Territory boundaries already present

Account Density View

-  Shows Tucson office star
-  Territory boundaries already present

Market Size View

-  Shows Tucson office star
-  Territory boundaries already present

Employee Locations View (NEW)

-  Shows Tucson office star
-  **NEW:** Territory boundaries added
-  Office stars color-coded by territory

Commercial Density View (FIXED)

-  Shows Tucson office star
-  **FIXED:** Zip polygons now render properly
-  **NEW:** Territory boundaries added
-  Office stars color-coded by territory

Technical Details

Data Sources

- **Office Locations:** /public/office-locations.json (updated with Tucson)
- **Territory Assignments:** /public/phoenix-tucson-map-data.json
- **Zip Boundaries:** /public/az-zip-boundaries.json (GeoJSON)
- **Commercial Density:** /public/commercial-density-data.json

Color Standardization

All territory colors now consistently used across all map views:

West Branch:	Blue	(#3b82f6)
Central Branch:	Green	(#10b981)
East Branch:	Orange	(#f97316)
Tucson Branch:	Pink	(#ec4899)
Commercial:	Amber	(#f59e0b)

Testing & Deployment

Build Status

- ✓ TypeScript compilation: Passed
- ✓ Next.js build: Passed
- ✓ Development server: Running successfully

Deployment

- **Live Application:** <https://phoenixnewlocations.abacusai.app>
- **Checkpoint Saved:** "Added Tucson office and territory boundaries"
- **Ready for Deployment:** Yes

User Experience Improvements

1. Clearer Territory Visualization

- Territory boundaries help users understand branch coverage areas
- Consistent color coding across all views reduces confusion

2. Complete Geographic Coverage

- Tucson branch now visible on all maps
- Four-branch system (West, Central, East, Tucson) fully represented

3. Enhanced Commercial View

- Fixed rendering issues with zip code polygons
- Clear visualization of commercial account distribution
- Territory boundaries show which branch serves which area

4. Employee Assignment Context

- Territory boundaries on employee map provide geographic context
- Easier to understand employee-to-office assignments
- Visual validation of Troy's branch assignments

Next Steps (If Needed)

Future enhancements could include:

- Toggle controls to show/hide territory boundaries
- Additional office locations for future planning phases
- Legend updates to explain boundary meanings
- Interactive territory information windows

Files Modified

1. `/nextjs_space/public/office-locations.json` - Added Tucson office
2. `/nextjs_space/components/commercial-density-map-view.tsx` - Major updates
3. `/nextjs_space/components/employee-map-view.tsx` - Major updates

All changes are backwards compatible and maintain existing functionality.