

# 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.