

# CoordyNavi

Product Release Notes

## Version 1.1.0

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Release Date: May 2026

Platform: Android

# What's New in CoordyNavi 1.1.0

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CoordyNavi 1.1.0 is the most significant update to the platform since launch. This release delivers native DWG file support via the ODA Drawings SDK, expanded Bluetooth Total Station compatibility for the GM-60 and iM-60 series, full Resection (Zero Set) surveying capability, a smarter staking workflow with map-based target selection, improved CSV import, faster data sync, and a significantly enhanced Rodman experience. Dozens of bug fixes across licensing, map rendering, and file handling ensure a more stable and reliable field experience.

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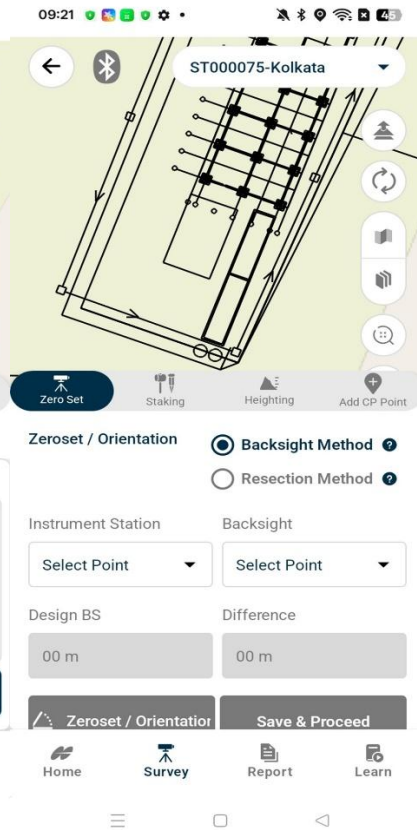
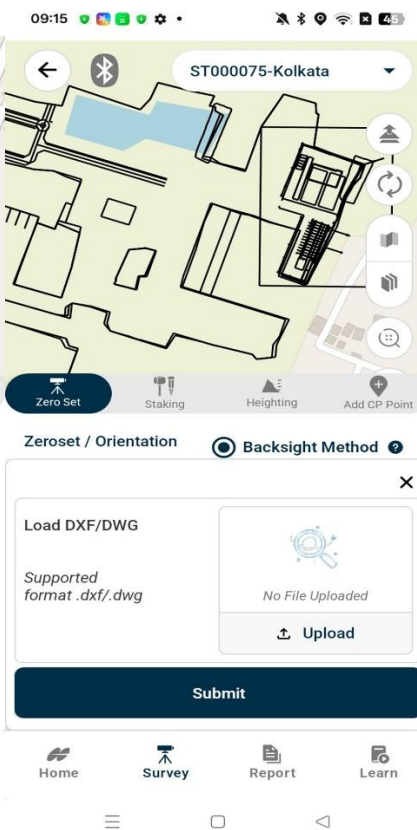
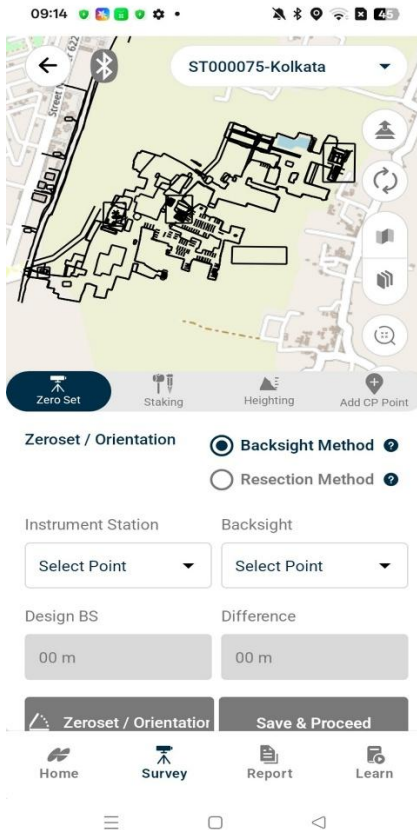
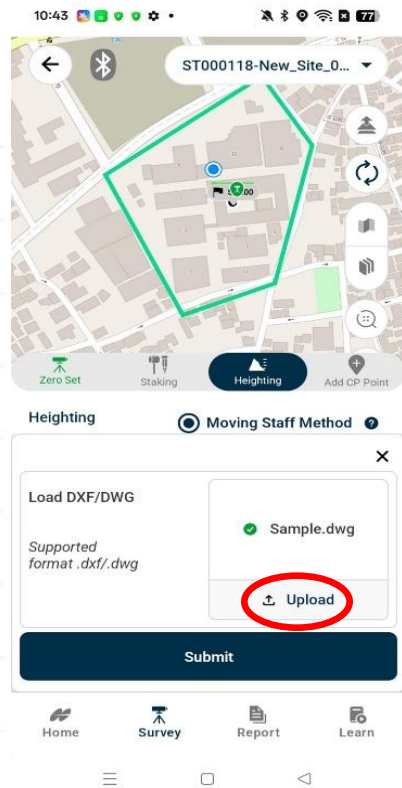
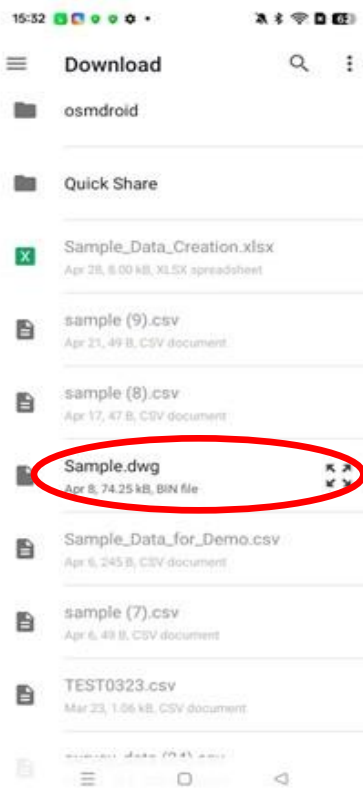
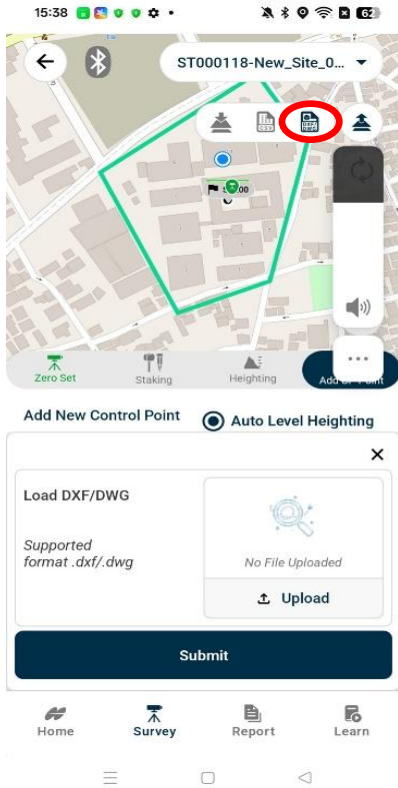
## 1. DWG / DXF Drawing Support

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CoordyNavi 1.0.0 supported DXF files only. With 1.1.0, DWG files can now be loaded directly as well — no PC-side conversion required. Surveyors and project managers can transfer DWG files straight from AutoCAD, Civil 3D, or other CAD platforms to the device, with the drawing rendered accurately on the live map.

### Key Highlights

- Full DWG file format support — in addition to DXF — loaded and rendered directly on the map without requiring any pre-conversion on a PC.
- Automatic UTM-to-WGS84 coordinate conversion: drawing coordinates are detected and transformed in the background, placing the drawing precisely over the correct map location without manual offset entry.
- Multiple drawing files can be loaded simultaneously on a single site, allowing field teams to overlay design layers.
- File size validation and drawing structure checks at upload time prevent corrupt or oversized files from reaching the map — with a clear explanation of the issue.
- Print-layout elements within the drawing (title blocks, legends, annotation frames, etc.) are automatically excluded, so only the actual drawing geometry is displayed on the map.
- A dedicated DWG/DXF deletion workflow with confirmation prompts ensures drawings can be cleanly removed without affecting other site data.



## 2. Resection (Zero Set) — New Capability

CoordyNavi 1.0.0 supported station setup via the known-point backsight method only. In version 1.1.0, resection has also been added. Instrument operators can now choose between the resection method, which determines the instrument position by sighting two known reference points, and the known point backsight method, depending on site conditions

### What's Included

- Complete Resection calculation formula implemented natively — The app supports position calculation using observations of two known points.
- Surveyors can select known control points directly on the map to define the resection observation set.
- Zero Set results are automatically saved to the local database and synced to the server in real time.
- Results are pushed to connected Rodman devices, keeping the entire field team spatially aligned without manual data transfer.

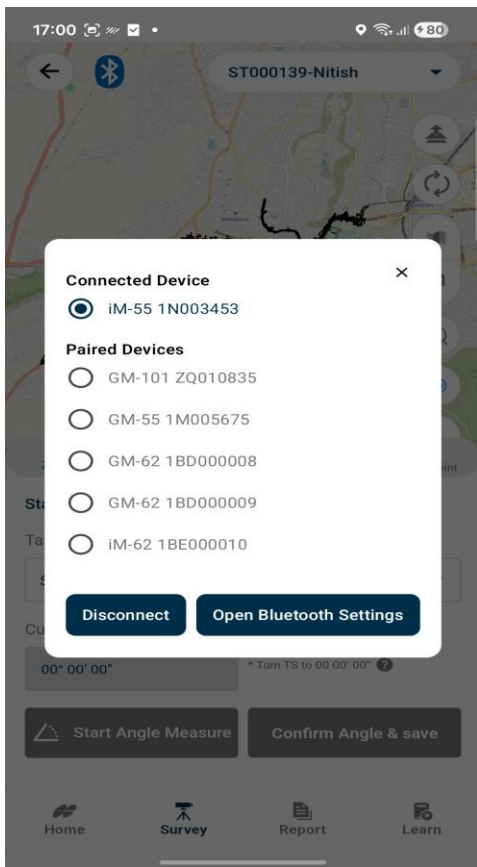


### 3. Bluetooth Disconnection

CoordyNavi 1.1.0 introduces a dedicated Bluetooth Disconnect option, giving operators clean and reliable control over the Total Station connection lifecycle.

#### Bluetooth Disconnection

- A dedicated Disconnect option is now available from the Bluetooth connection screen, allowing the Instrument Operator to cleanly terminate the TS connection without closing the app or restarting the device.
- Disconnecting properly releases the Bluetooth socket and resets the connection state, preventing stale connection issues on subsequent reconnect attempts.
- The connection status indicator updates immediately on disconnect, giving clear visual feedback that the link has been terminated.

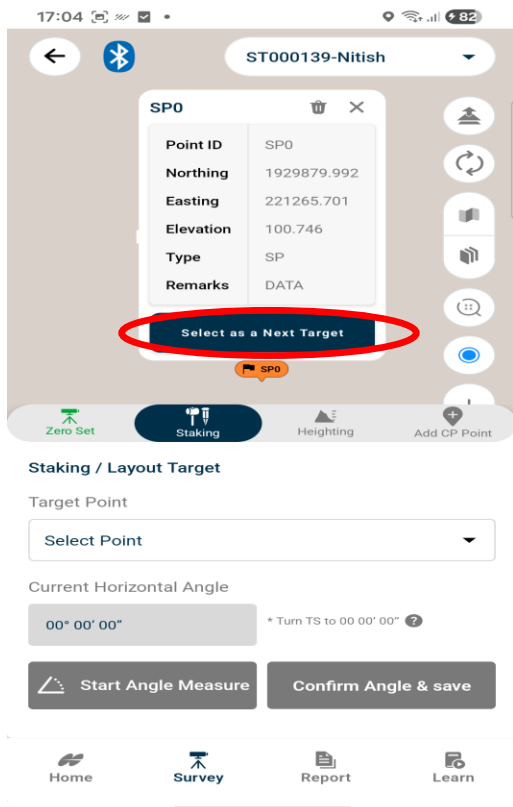


## 4. Target Point Selection in Staking

The staking workflow now supports direct target point selection from the map. Instead of navigating through lists or manually selecting a Point ID, the Instrument Operator can simply select SP point and click on select set as target point to set it as the active stakeout target — making the process significantly faster and more intuitive in the field.

### What's Included

- A tap-to-select interaction on the map allows the IO to pick any visible SP as the active target for staking.
- The selected target point is immediately highlighted on the map, providing clear visual confirmation before the measurement begins.
- Target selection works for SP point types — whichever point is tapped becomes the active staking target.



## 5. CSV Upload & Point Import

The CSV import pipeline has been rebuilt from the ground up. The workflow is now unified, validated, and more resilient — reducing errors during point import and giving users clear, actionable feedback when something goes wrong.

### What's Included

- A single consistent CSV template is used for both Draw Boundary and Import CSV workflows, eliminating confusion about file format requirements.

- Real-time validation catches common errors — missing columns, invalid coordinate values, incorrect delimiters — before data is committed to the database.
- A new Type column in imported CSVs allows points to be pre-tagged as Control Point (CP) or Stakeout Point (SP), removing the need to assign types manually after import.
- Incorrect file types (e.g., uploading a KML when a CSV is expected) are detected and rejected immediately with a clear explanation.
- Sync triggers automatically after a CSV is successfully loaded — no manual sync step required.

## 6. Data Synchronization Improvements

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Data sync is now more intelligent, more transparent, and more reliable. CoordyNavi 1.1.0 triggers synchronization at the right moments automatically, and gives users a clear choice when unsaved changes exist.

### What's Included

- Sync triggers automatically at all key field events: completing a Zero Set, finishing XY or Z measurements, adding a new Control Point, and uploading a CSV.
- When unsaved local changes exist, a redesigned prompt provides a clear 'Sync Now' or 'Cancel' option — no more ambiguous dialogs.
- The 'Out of Range' message from the Total Station is now surfaced directly within CoordyNavi so both the IO see a consistent status message.
- Database schema improvements ensure sync data is stored more efficiently, reducing the risk of data loss during poor connectivity.
- A refreshed sync status bar and rearranged toolbar icons make it easier to see the current sync state at a glance.
- Survey data is now retained on the device after a report is generated, so historical survey data remains accessible across sessions instead of being cleared after report output.

## 7. Rodman User Enhancements

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The Rodman experience has been streamlined. Rodman users now receive live point data directly from the server, see assigned points plotted on the map automatically, and benefit from a cleaner interface that removes features not applicable to their role.

### What's Included

- Point data synced by the Instrument Operator is automatically reflected on Rodman devices, keeping the map up to date.
- Points are placed on the Rodman map automatically after sync — no manual refresh needed.
- The CSV upload option has been removed from the Rodman interface. Rodman users work with data provided by the IO, so this simplification reduces clutter and prevents accidental imports.
- Zero Set (Resection) results synced by the IO are visible on the Rodman map in real time, keeping both users spatially aligned throughout the survey.
- Rodman site-based paid feature activation now works correctly — features enabled by the IO are accurately reflected on associated Rodman devices.
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## 8. GNSS / Location Tracking

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Location tracking on the map is now more responsive and more battery-conscious, adapting automatically to how fast the user is moving.

### What's Included

- Adaptive GNSS update rate: when the device detects the user is stationary, location updates slow down to conserve battery. When movement is detected, the update rate increases for a smoother real-time tracking experience.
- The current location indicator on the map now updates continuously and instantly as the user moves — the previous delay of several seconds has been eliminated.

## 9. License & Subscription Management

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License management has been overhauled to be more reliable, transparent, and easier to administer — particularly for multi-device and multi-role deployments.

### What's Included

- License expiry dates are now always displayed accurately, with stale or cached values no longer causing incorrect expiry information to appear.
- License renewal and extension flow has been redesigned on both the app and server side, with clearer status screens and error messages.
- Paid feature logic for IO users has been corrected — feature access is now properly gated per account state and site role.
- Site ID list API now includes paid feature status per site, enabling accurate feature gating per role across all site assignments.
- Company role management improvements: IO-to-RM and RM-to-IO transitions now correctly preserve or transfer paid feature states.

## 10. User Interface & Experience Improvements

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A suite of visual and interaction improvements make CoordyNavi 1.1.0 cleaner, more intuitive, and more consistent across all screens.

### Visual Refresh

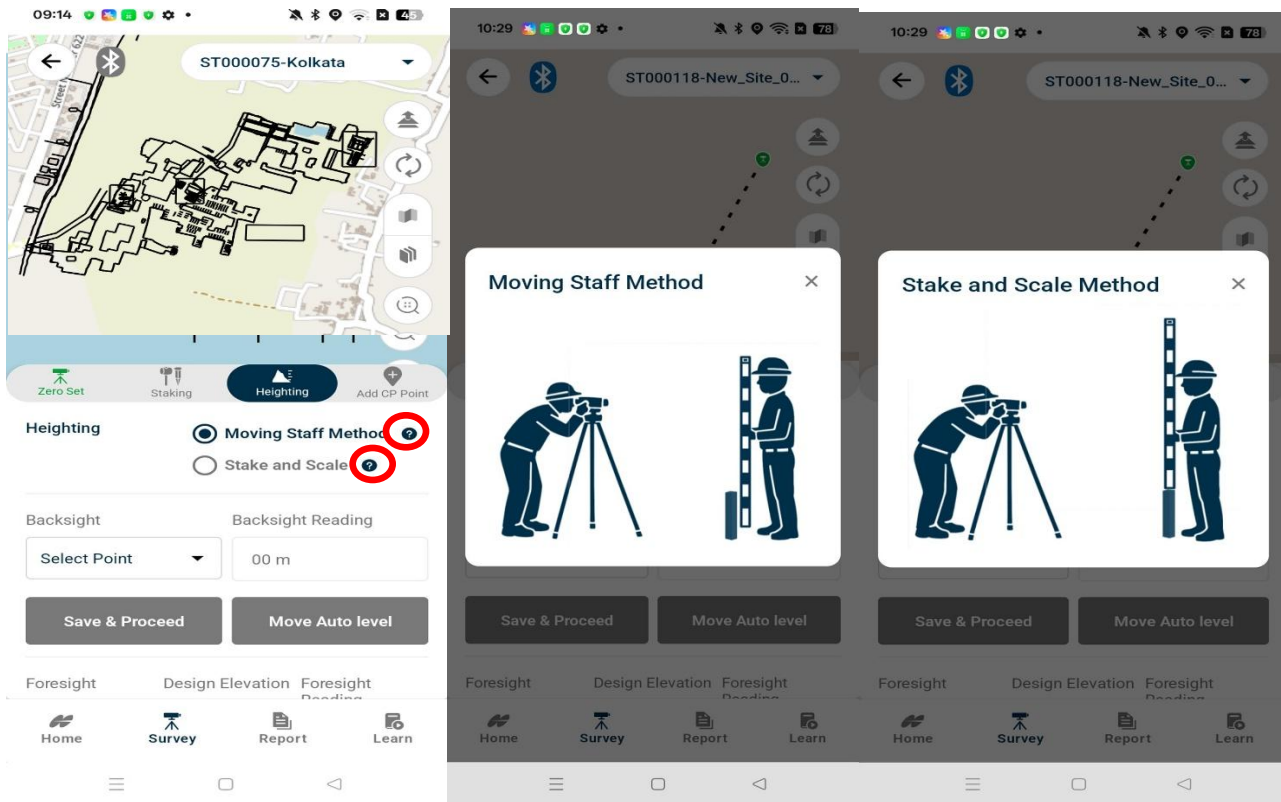
- New navigation ribbon design with updated layout and improved touch targets.
- Refreshed file-type icons for CSV, KML, DWG, and DXF files for clearer visual differentiation in the file browser.
- Updated Save icon on the Add New Site screen, consistent with the new design language.
- Bluetooth status icon in the connection popup updated to match current icon standards.
- A GIF animation on the heighting method selection screen explains each option visually, helping new users understand the differences quickly.

### Usability Improvements

- Measurement timeout handling: if a Total Station measurement times out, the user can re-measure directly from the current screen without being sent back to the dashboard.
- Overlapping point display has been redesigned to clearly distinguish points sharing the same XY coordinates but with different Point IDs — avoiding confusion during multi-point layouts.
- Alert message when IO changes role to RM and they are the only IO on the site — preventing accidental removal of the last operator.

Site creation can now be completed with an IO user only — adding a Rodman is optional, removing a blocker for single-operator workflows.

\* Please note that Rodman information is included in reports, so a Rodman must be assigned before exporting reports.



## 11. Bug Fixes Summary

CoordNavi 1.1.0 includes a wide range of fixes and stability improvements based on issues identified after the 1.0.0 release and field feedback from active users. Key areas addressed:

- Crash prevention during file uploads — Resolved application crashes that could occur during CSV, DXF, and DWG file upload operations, including scenarios involving multiple drawing files loaded in sequence.
- License and paid feature handling — Fixed cases where paid features were not correctly preserved or transferred across company changes, role transitions (IO ⇌ RM), and activation on additional devices. Updating an email address no longer affects paid feature availability.
- Site creation and editing stability — Resolved the HTTP 400 error that occurred when attempting to create a site without a Rodman, errors when removing a Rodman from existing sites, and the loss of satellite map view selection after editing site details.
- Map and synchronization display accuracy — Improved the responsiveness of the current location marker, the timing of the sync status indicator, and the visibility of point IDs and overlapping point markers.
- UI polish — Resolved a number of smaller issues including inconsistent button visibility, overlapping text on certain screens, and minor display glitches during screen transitions.