

### D8Acapture v1.0.17 — Release Notes

Date: October 2, 2025

Feature: Line/Polyline Drawing

## Feature Overview

### Line/Polyline Drawing

This update introduces the new **Line/Polyline Drawing** feature, making it easier to represent infrastructure elements (like spans, cables, or conduit paths) directly on your project map across both web and mobile platforms.

#### Key Benefits

- Draw single or multi-point lines or polylines directly on the map.
- Instantly calculate line length.
- Edit, save, and sync line data seamlessly between web and mobile.

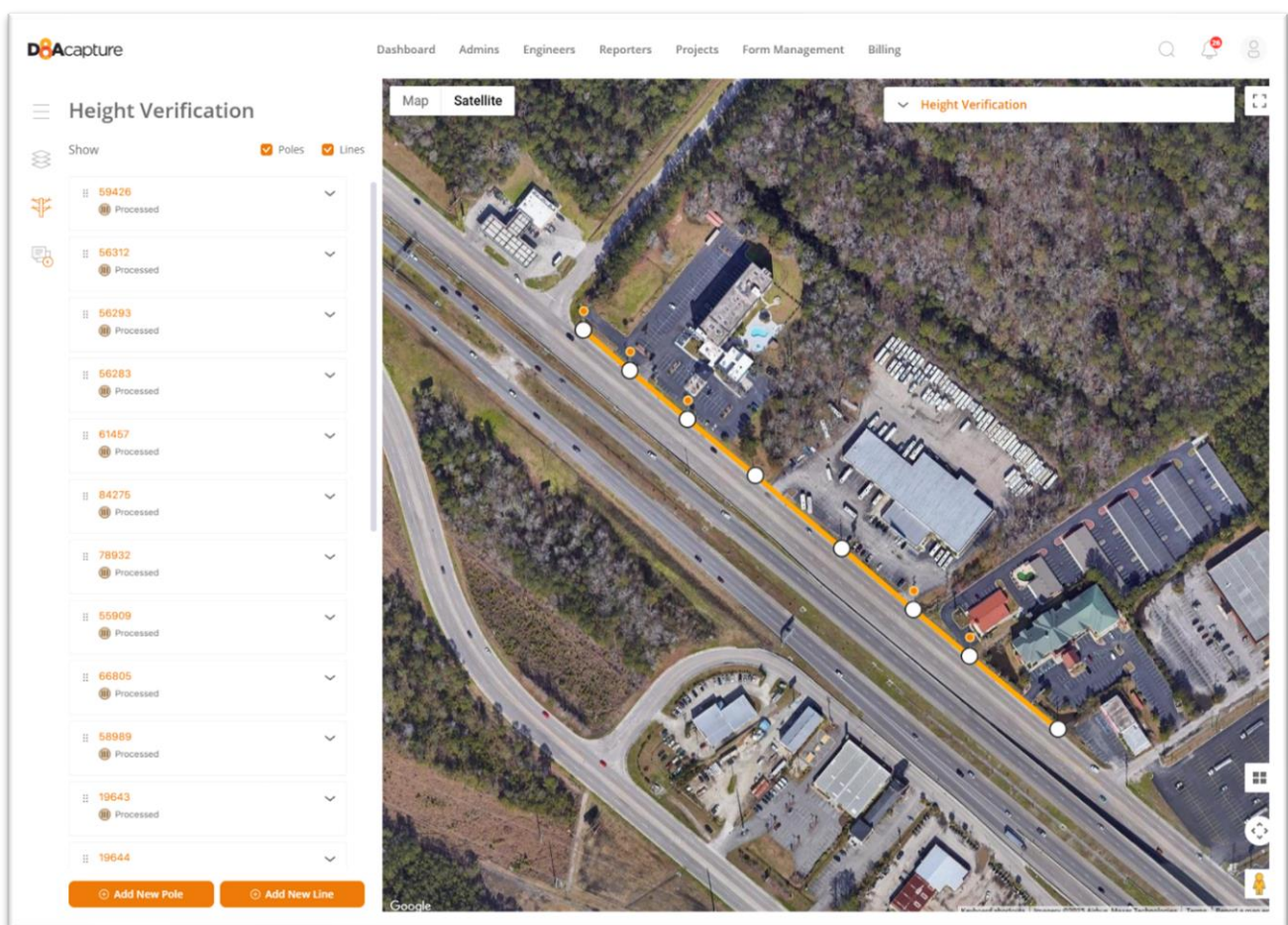


Figure 1. Example of drawing and editing a line/polyline between poles in D8Acapture (Web interface).



## What's New

### 1. Draw & Edit Lines on the Map

Create one or more lines or polylines to represent network elements.

- Add multiple points for complex spans.
- Edit geometry, type, and color after creation.

### 2. Line Type & Color Selection

After drawing, users select a **Line Type** (Span, Fiber, Messenger, Other) from a predefined list.

- Editable anytime after creation.

### 3. Automatic Length Calculation

Every drawn line automatically displays its total distance. Shown as read-only data in the attribute panel.

### 4. Cross-Platform Persistence

All lines are stored in project data and stay synced between web and mobile, so teams view the same information anywhere.

### 5. Editing Flexibility

Select, edit, or delete any existing lines.

Edits include geometry updates and attribute changes.

## Mobile Experience

### 1. Map View

- View, add, or edit lines directly on the map with intuitive touch gestures and zoom controls.
- Tap a line's area to select it.

### 2. Add New Line:

- From List View or Map View, tap **Add New Line** to open the input form.
- Define attributes (Name, Line Type, Color) and add points.

### 3. Exit Actions:

- **Save** to confirm, or **Close** to discard unsaved changes.

## Web Experience

- Draw and edit lines directly on the map with standard click-to-add points.
- Use dialog windows to fine-tune coordinates.
- Access line details such as Name, Line Type, Color, Coordinates, Total Distance, and Comments from the project form.
- Manage lines with **Cancel**, **Save**, and **Remove Line** options.



## Data Logic & Pole Association

When you add or edit a line point, the system automatically checks nearby poles:

- If a pole is detected within 3 feet, it prompts to associate the line with that pole.
- Updates or deletions sync automatically with the database relationships.

## Technical Notes

- Compatible with the current GIS engine and data model.
- Supports coordinate snapping on mobile (where feasible).
- Attribute data included in exports (CSV/KML).
- Minimum two points are required to draw a line.

For questions or feedback about this release, please contact us at [contact@d8averse.com](mailto:contact@d8averse.com).