katapult

Katapult Pro

Real-time engineering tools for overhead utilities

Simpler, Smarter, Safer Solutions that raise the quality of life for Americans by ensuring reliable access to power and telecom utilities.

42'-11" Pole Top
42'-8" Pin   MET-ED Primary
42'-2" 8
Pin   MET-ED Primary
Pin   MET-ED Primary

40'-0" Deadend   MET-ED Primary

Neutral
Neutral   MET-ED Neutral
32'-9" First Energy ADSS

29'-7" Comcast CATV Com

28'-4" Verizon Telco Com
28'-4" Verizon Fiber Optic Com

27'-3" Verizon Telco Com

26'-2" Verizon Telco Com

25'-1" Verizon Telco Com

Katapult Engineering is a software development firm focused on bringing **reliable utilities to people** through engineering SaaS and services.

Since 1991, we've wrestled with our clients' and partners' biggest pain points to understand and solve the industry's toughest challenges.

We look forward to helping your team reach your goals and leave a lasting impact in the communities you serve.

Product Components & Features

You can change the game. Katapult Pro tackles the core challenges of the pole attachments process so you can take on new projects, scale your team, and crush your goals.

Real-time Cloud Database

Work together in a dataset that always represents one version of truth. Share projects with partners and clients with the click of a button. View and make changes in real-time from anywhere.

Editable Models

Endless customization of attributes, map styles, deliverables, and workflows to go above and beyond for your clients and partners. Tweak your setup to serve new customers.

Measurable Photos

Capture existing and proposed conditions to the real pole and attachments in question. Host virtual rideouts and disputes to discuss defensible data. Measurements up to 50' with 3" total error (1/4 MR error).

Default Workflow

Leverage decades of experience to hit the ground running on day one. Utilize common design elements, workflows, QC steps, and deliverables to produce immediate value while building out your custom services and offerings.

Custom Attributes

Quickly add new data types, picklists, tables, and more to populate photo and map data.

GIS Map Base

Tie design elements to their true geolocations. Tie photos and engineering data to the map - all automatically.

Configurable QC

Check your work at the click of a button and build workflows that allow your people to quickly fill in the gaps or fix mistakes.

Out-of-the-box and Custom Deliverables

Provide web, photo, map, and spreadsheet deliverables at the click of a button. Or, work with our team to create an automated legacy download, such as a pole profile sheet.

Unified Platform

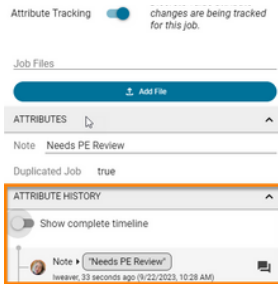Data collection, make ready, and integrated pole loading on one platform.

DC **Data Collection**

You put in the work to collect great data

Your team members spend hours in the field, bushwhacking through the woods and braving extreme conditions. It's tough work, but your carefully collected data is the foundation for quality engineering decisions.

- **Two-Person Workflow:** Lower field exposure and collect higher volumes of poles more safely with photo collection.

- **Offline Collection:** Collect data and edit designs offline or in areas with poor connectivity.

- **Attribute Tracking:** Provide feedback to staff and subcontractors with user time stamps of when certain actions are taken.

- **Measurable Photos:** Capture existing and proposed conditions to the real pole and attachments in question. Host virtual rideouts and disputes to discuss defensible data.

- **Out-of-the-box & Custom Deliverables:** Provide web, photo, map, and spreadsheet deliverables at the click of a button. Or work with our team to create an automated legacy download, such as a pole profile sheet.

- **Mobile Assessments:** Create custom capture forms for data entry from the field.

- **As-Built Documentation:** Capture measurable post-construction photos without full re-collection to identify engineering deficiencies.

Make Ready Engineering

Calling make ready is no small feat

Every part of the pole attachments process demands flexibility and critical thinking, but calling make ready requires a special set of skills. Every day, your team combines creativity and expertise to solve complex problems for safer, faster attachments.

- **Comm & Conductor Tracing:** Document the aerial plan throughout your project to simplify annotations, model reality for pole loading analysis, and identify midspan clearance violations generated by moves at the poles.

- **NESC23 Clearances:** Auto-flag all clearance violations at once for an entire project.

- **Custom Make Ready Rules:** Edit make ready rules to model the specific standards within your market.

- **Integrated Pole Loading:** View real-time pole loading analysis results as you call make ready, without leaving the platform.

- **Make Ready Heat Maps:** Use map styles to highlight where engineering is needed and create hotspots where expensive make ready construction is likely.

- **Make Ready Notifications:** Generate a report with one click to highlight required make ready work. Break down Simple vs. Complex work for one touch make ready applications.

- **Real-Time Pole Loading Analysis:** Leverage existing and proposed pole data for real-time loading results in Katapult Pro, or export data to SPIDAcalc, O-Calc Pro, or PoleForeman. Share data with involved parties with flexible export and reporting options. *New* **DDS Data Share!**

- **Cost Causer Filtering:** Evaluate pre-existing attachment violations using attacher filters to see where construction went wrong and who might be responsible.
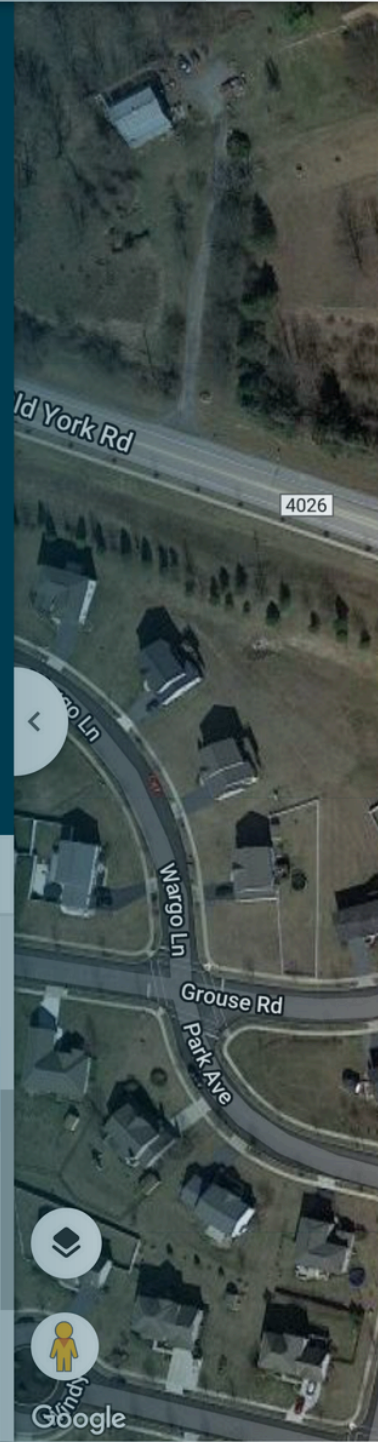
JU Joint Use Management

You make pole attachments possible

You do more than manage pole attachments. You build and maintain relationships between applicants, incumbents, and contractors—because you know that a resilient grid demands collaboration and coordination.

- **Portal Workflow:** Manage applications via a public-facing interface for applicants to request attachments. Present one version of the truth with an easily accessible database that harnesses best-in-class cloud security. Advance applications faster with instant updates and no delays due to calendar days.

- **Hosted Utility Records:** Use secure file transfer protocol to share available pole locations and conductor information for better submissions and engineering.

- **Default Implementation:** Get started on day one with an out-of-the-box workflow, suggested statuses, and attributes.

- **Custom Configuration:** Tweak default settings with custom application types, statuses, actions, notifications, timelines, searchable attributes, and more. Train and certify teams to customize and configure the portal.

- **Required Attributes:** Automatically vet attachment requests for completeness prior to submission to ensure quality applications and minimize repeat submissions.

- **Automatic Email Notifications:** Automate notifications to relevant parties. Increase visibility and improve project timelines with automated status updates, time events, and more.

- **Transparent Timelines:** Create custom timers for application types with set events and alerts. Share survey data and make ready engineering decisions with all parties.

Software Packages:

Package tools available to all users

Data Collection

- *New!* **Mobile Assessments**: Create custom forms to enter and edit data from the field.
- *New!* **Post-Construction Inspections**: Capture measurable post construction photos for as-built documentation to identify construction deficiencies.
- *New!* **Attribute Tracking**: Track changes to attributes on nodes, connections, and sections for greater transparency within your team and feedback for growth.
- **Offline Collection**: Collect data and edit designs even in areas with poor connectivity.
- **Measurable Photos**: Capture existing and proposed conditions to the real pole and attachments in question. Host virtual rideouts to discuss make ready using defensible data.

Make Ready Engineering

- *New!* **Integrated Pole Loading**: View real-time pole loading analysis results as you call make ready, without leaving the platform.
- *New!* **One-Touch Make Ready**: Scale your team with tools specifically designed to help you grow in an industry hungry for approved One-Touch Make Ready contractors.
- **Make Ready Heat Maps**: Use map styles to highlight where engineering is needed and create hotspots where expensive make ready construction is necessary.
- **Custom Make Ready Rules**: Edit make ready rules to model specific standards within your market.

Make Ready Engineering offering also includes access to Data Collection tools.

Application Management

- *New!* **Portal Workflow**: Capture data, host records, manage pole attachment applications, and collaborate with vendors on a public-facing database.
- *New!* **Default Implementation**: Get started on week one with an out-of-the-box workflow, suggested statuses, and trackable attributes.
- *New!* **Custom Configuration**: Train and certify teams to configure default settings with custom application types, statuses, notifications, timelines, and more.

Application Management can be combined with engineering tools to create a Joint Use Management program in your footprint.

Package Features:

FEATURES	DATA COLLECTION	MAKE READY ENGINEERING	APPLICATION MANAGEMENT	JOINT USE MANAGEMENT
Desktop design	✓	✓		✓
Field collection	✓	✓		✓
Photo uploads	✓	✓		✓
Photo tagging/calibration	✓	✓		✓
Measure attachment and midspan heights	✓	✓		✓
Tracing	✓	✓		✓
Proposed attachments/guying	✓	✓		✓
New! Mobile assessments	✓	✓		✓
New! Post Construction Inspections	✓	✓		✓
Automated QC	✓	✓		✓
Standard map, photo, and spreadsheet exports	✓	✓		✓
Auto-flag clearance violations		✓		✓
Make Ready moves		✓		✓
Pole replacement design		✓		✓
Make Ready notification exports		✓		✓
Nested heights		✓		✓
Comm and conductor specs		✓		✓
New! Virtual rideout view		✓		✓
New! One-touch make ready notification export		✓		✓
New! Integrated Pole Loading Analysis		✓		✓
New! Real-time loading results		✓		✓
New! Public-facing application portal			✓	✓
New! Hosted utility records			✓	✓
New! Email notifications and digital signoffs			✓	✓
New! Attribute tracking and searchable actions			✓	✓
New! Custom timelines and status actions			✓	✓
New! Configurable application requirements			✓	✓

2024 Software Roadmap:

Distribution Pole Engineering
- Evolved Data Collection (PCI, LiDAR)
- Better Access to Great PLA (Integrated PLA Catalog)

Application Management
- Dataset Retention (Location Directory, Pole Lookup)
- Administered Make Ready Standards (Model Sharing)

Joint Use Programs
- Project Health (FCC Compliance Dashboard)
- Overlapping Attachment Requests (Multiple Attachers)
- Double Wood Resolution (Deployment Map/Notifications)
- Attachment Records/Billing (Audits/Invoice Generator)

Aerial OSP is a unique opportunity to positively impact people. Pushing the telecom attachments process to be better and faster without sacrificing safety or reliability puts you in a position to bring two critical utilities to communities across the country.

Raising the quality of life for Americans—that's work that matters!

Ready to get started with Katapult Pro?
Scan to schedule a meeting today!

or visit katapultengineering.com/contact-us

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