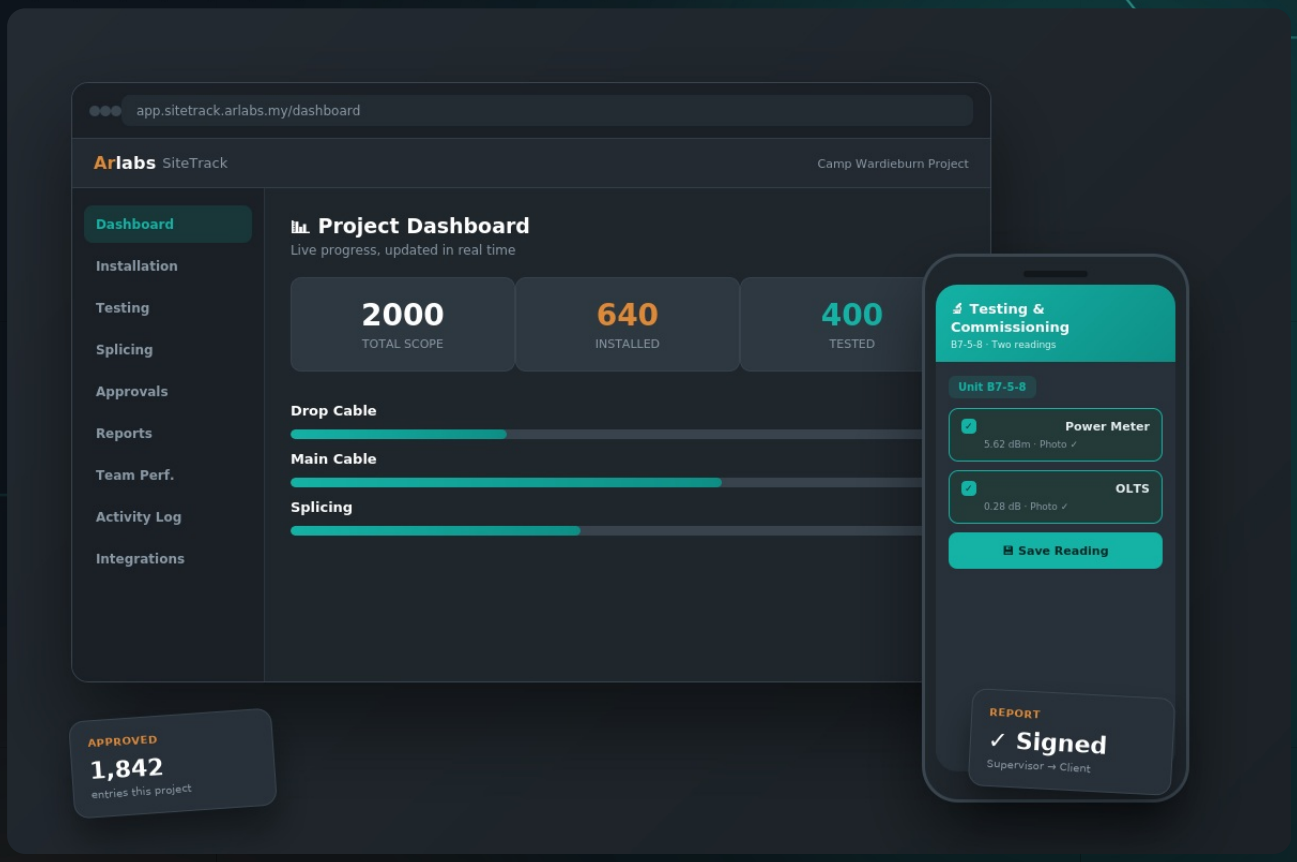
PRODUCT WHITEPAPER

ARLABS



FIELD-OPS PRODUCT

Arlabs SiteTrack

A mobile-first field-operations product for telecoms projects — house-by-house fiber installation, testing, commissioning, splicing and client-ready reporting, built for real Malaysian field conditions.

Version 1.0 · September 2026 · Classification: Public · 12 modules · arlabs.my

ABOUT THIS DOCUMENT

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Screens shown are illustrative product renderings. Features and module scope are confirmed per deployment. © 2026

SECTION 1

Executive summary

A mobile-first field-operations product for telecoms projects — house-by-house fiber installation, testing, commissioning, splicing and client-ready reporting, built for real Malaysian field conditions.

12	1	3	MYT
MODULES	SHARED IDENTITY & AUDIT LAYER	CHANNELS: WEB · IOS · ANDROID	TIMEZONE & LOCAL RULES

What it delivers

- ✓ Mobile-first PWA — no install, works on any phone
- ✓ Photo evidence on every entry, offline-ready capture
- ✓ Installation, testing, splicing and reporting in one product
- ✓ Approval-gated progress and client-ready PDF reports

Who it is for

Arlabs SiteTrack is built for organisations whose work happens across offices, sites and the field — where activity is recorded by many people, has to be verified before it counts, and must be reportable to management and clients. It suits operators that have outgrown spreadsheets and chat groups but do not want a heavy enterprise suite.

Why it matters

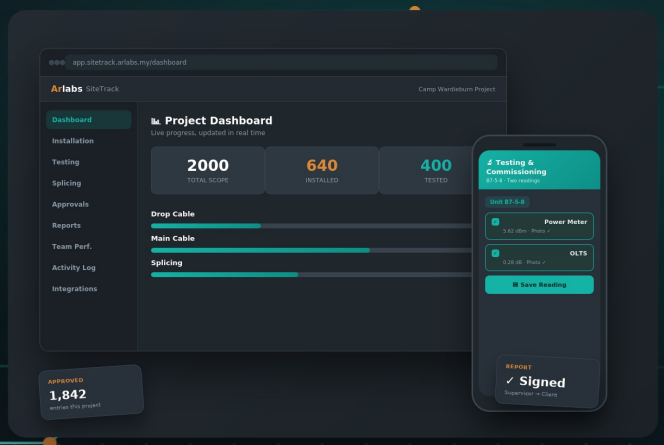
Manual and disconnected records cost operators in three places: time lost consolidating data, disputes over what was actually done, and decisions made on stale numbers. Arlabs SiteTrack addresses all three by capturing work where it happens, gating it through approval, and presenting a live, verified picture to the people who need it.

> IN PRACTICE
>
> A subcontractor logs a completed house in one screen with photos; a supervisor approves it; and the approved work instantly updates live project progress and the client report.

SECTION 2

Solution overview

A mobile-first field-operations product for telecoms projects — house-by-house fiber installation, testing, commissioning, splicing and client-ready reporting, built for real Malaysian field conditions.



PWA / mobile · Offline-ready · EN / BM · PDF reporting

One system, 12 modules

Every module shares the same identity, access-control, notification and audit layer, so a record created in one place is visible, actionable and traceable everywhere it is permitted to be. Modules can be adopted individually and enabled over time.

- Digital Field Data Collection
- Homepass Installation Tracking
- Testing & Commissioning
- Splicing Management
- Approvals & Quality Control
- Real-Time Dashboard
- Client-Ready Reporting
- Digital Signing
- Team Performance
- Activity Log & Audit Trail
- Built for Malaysian Field Teams
- Integrations

How work flows through the system

1 · Capture

Work is recorded at the point it happens — on mobile in the field or on the web in the office — with photos, timestamps and the identity of the person recording it.

2 · Verify

Entries pass through role-based review before they count. Supervisors approve, edit or return; every decision is logged with who and when.

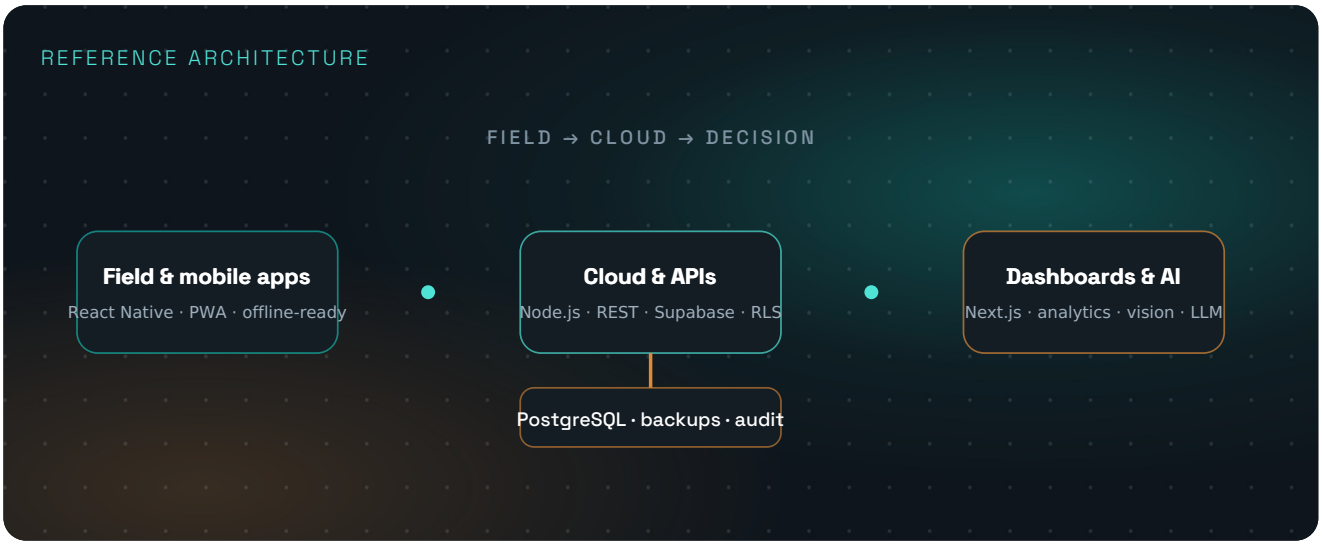
3 · Report

Verified records roll up into live dashboards and exportable reports, so management, clients and auditors see the same trusted numbers.

SECTION 3

Architecture & how it works

Arlabs SiteTrack runs on a modern, cloud-hosted stack: mobile and web clients talk to a secured API layer over a PostgreSQL database, with access enforced at the database level rather than only in application code.



Clients

A responsive web dashboard for office, supervisory and management roles, and a mobile app for field users that works offline and syncs automatically when connectivity returns. Nothing to install for web users; the mobile app runs on iOS and Android.

Data & security

Every tenant's data is isolated with row-level security, so permissions are enforced by the database itself. All traffic is encrypted in transit, backups are automated, and every create, edit, approval and deletion is written to an immutable activity log.

Integration

REST APIs allow controlled exchange with other systems — inventory, finance, document stores or hardware — where a deployment requires it. Exports to PDF and Excel are built in.

Technology

PWA / mobile · Offline-ready · EN / BM · PDF reporting

The stack is shared across all Arlabs products, which keeps deployments consistent and maintainable over the long term.

SECTION 4.1

Module 1 / 12

Digital Field Data Collection

Capture work from the field, even offline.

What it does

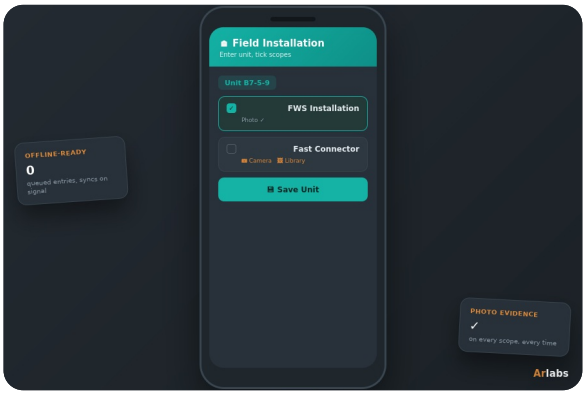
Digital Field Data Collection replaces paper forms and scattered photos with one structured mobile capture flow. Every entry carries photo evidence, works offline, and syncs when signal returns — so the field record is complete, timestamped and trustworthy.

Key features

- Mobile-first PWA — no app install
- Photo evidence on every entry (camera or gallery)
- Automatic photo compression for weak signal
- Offline-ready field entry
- Digital site diary — weather, manpower, work done
- Issue tracking from the field

Benefits

- No lost or duplicated paperwork
- Evidence attached at the point of work
- Usable in basements and weak-signal sites



How it works

1. Field staff open the app and pick the scope they're working on.
2. They capture the work with a photo and a few taps — offline if needed.
3. Entries sync to the project record with time, location and author.

USE CASE

A crew in a low-signal basement logs each completed unit with photos offline; entries sync automatically the moment signal returns, so nothing is lost or re-keyed.

SECTION 4.2

Homepass Installation Tracking

Track every house, block by block.

What it does

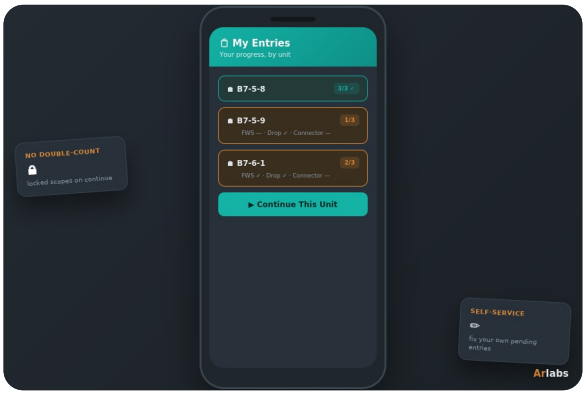
Homepass Installation Tracking gives every project a Block → Level → Unit structure and lets teams log a complete house in a single tap-through, with safeguards that stop the same unit being counted twice.

Key features

- ✓ Scope-based tracking per Block → Level → Unit
- ✓ One-tap full-house installation entry
- ✓ Duplicate-entry protection
- ✓ 'My Entries' progress dashboard for teams
- ✓ Locked-scope safeguard against double-counting

Benefits

- ✓ Accurate house counts, no double-logging
- ✓ Teams see and continue their own progress
- ✓ Clear structure from block down to unit



How it works

1. The project scope is organised into blocks, levels and units.
2. A team logs an installed unit in one screen with its scope items.
3. Duplicate and locked-scope checks keep the totals clean.

USE CASE

A subcontractor logs a full house install in one screen; the system blocks a second team from logging the same unit, so progress totals stay accurate.

SECTION 4.3

Module 3 / 12

Testing & Commissioning

Record test evidence per house.

What it does

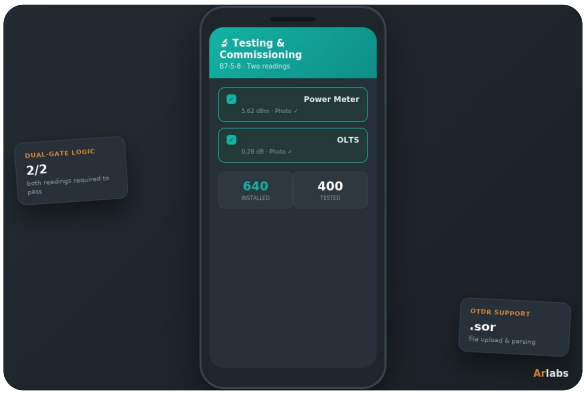
Testing & Commissioning captures per-house fiber test evidence — Power Meter dBm and OLTS loss — and marks a unit Tested only when both readings exist, with OTDR trace upload for full proof.

Key features

- Power Meter testing — per-house dBm with photos
- OLTS testing — per-house loss readings
- Dual-reading logic — 'Tested' only when both recorded
- OTDR .sor file upload and parsing

Benefits

- Commissioning status you can trust
- Every reading backed by evidence
- OTDR traces stored with the unit



How it works

1. The technician records the Power Meter reading with a photo.
2. They record the OLTS loss reading for the same unit.
3. The unit flips to Tested once both readings are captured.

USE CASE

A technician records Power Meter and OLTS readings per house with photos; the unit only turns 'Tested' once both are in, so commissioning status is never overstated.

SECTION 4.4

Module 4 / 12

Splicing Management

Full core-by-core splice traceability.

What it does

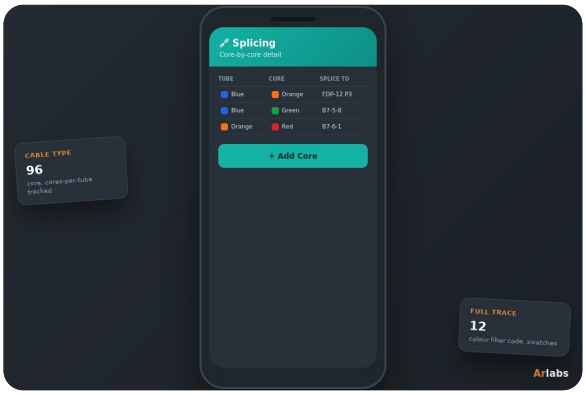
Splicing Management tracks cables down to the individual core — cable type, tube and core colours on the standard 12-colour code, and the from/to destination of every splice — giving complete traceability.

Key features

- Core-based tracking (24–288 core)
- Standard 12-colour fiber coding with swatches
- Per-core splice table (tube, core, destination)
- From / To cable tracking

Benefits

- Core-by-core traceability
- Standard colour coding, fewer errors
- Fast fault-finding later



How it works

1. The splicer selects the cable type and core count.
2. Each core is logged with tube colour, core colour and destination.
3. The full splice map is saved to the project record.

USE CASE

A splicer records each core's tube colour, core colour and destination; the full core-by-core map is available later for fault-finding and client proof.

SECTION 4.5

Module 5 / 12

Approvals & Quality Control

Only verified work counts.

What it does

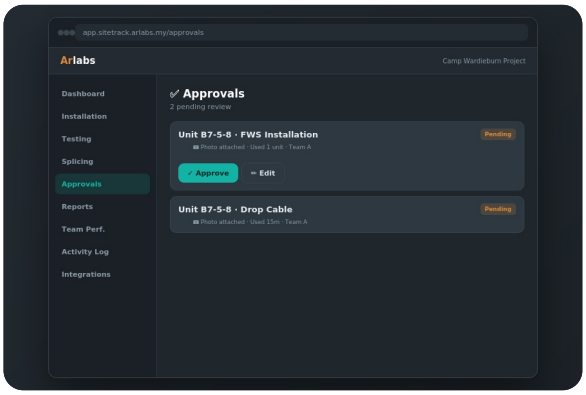
Approvals & Quality Control puts every field entry through review before it counts. Supervisors approve, edit or reject per entry, and only verified work rolls up into official progress and reports.

Key features

- Per-entry approval workflow
- Admin edit / delete; field teams fix own pending entries
- Approval-gated official progress

Benefits

- Only verified work is reported
- Mistakes caught before they count
- Clear accountability per entry



How it works

1. Field teams submit scope entries from the field.
2. A supervisor reviews each entry and approves or returns it.
3. Approved entries update official progress; the rest stay pending.

USE CASE

A supervisor reviews each scope entry; only approved work counts toward official progress, while teams can still fix their own pending mistakes.

SECTION 4.6

Module 6 / 12

Real-Time Dashboard

Live progress at a glance.

What it does

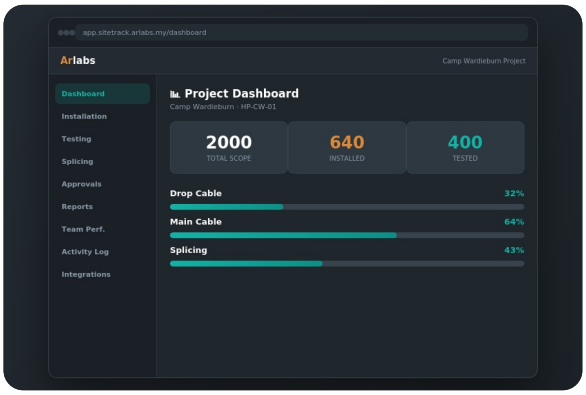
The Real-Time Dashboard shows live progress by scope — approved versus pending, installed versus tested — with an 'Installed by Date' view for any day or range, so status is never a guess.

Key features

- Approved vs pending (in-review) totals
- Installed vs Tested house counts
- 'Installed by Date' for any date range
- Milestone tracking

Benefits

- Live progress without chasing updates
- Approved vs pending at a glance
- Answer 'how much today?' instantly



How it works

1. Approved field entries feed the dashboard continuously.
2. Progress is shown per scope against total project scope.
3. Filter by date to see installed and tested for any period.

USE CASE

A project manager opens the dashboard mid-morning and sees exactly how many houses were installed and tested today, against the total scope.

SECTION 4.7

Module 7 / 12

Client-Ready Reporting

Reports your client can sign off.

What it does

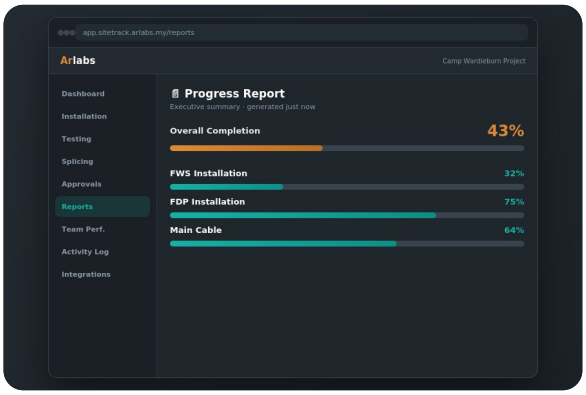
Client-Ready Reporting turns the live record into polished PDFs — progress reports for meetings and final reports for closeout — with executive summary, completion charts, a house-by-house matrix, photo grids and material usage.

Key features

- ✓ Progress & Final report modes
- ✓ Executive summary with completion % and charts
- ✓ House Completion Overview matrix
- ✓ Photo-evidence grids by block / level
- ✓ Material usage & detailed splicing reports

Benefits

- ✓ Meeting-ready reports in minutes
- ✓ Consistent, professional format
- ✓ Evidence and figures in one document



How it works

1. Pick a report mode — progress or final — and a date.
2. The system compiles summary, charts, matrix and photos.
3. Export a client-ready PDF for review and sign-off.

USE CASE

Before a client meeting, the manager generates a progress report with an executive summary, per-scope charts and photo grids — with no manual assembly.

SECTION 4.8

Module 8 / 12

Digital Signing

Sign-off, built in.

What it does

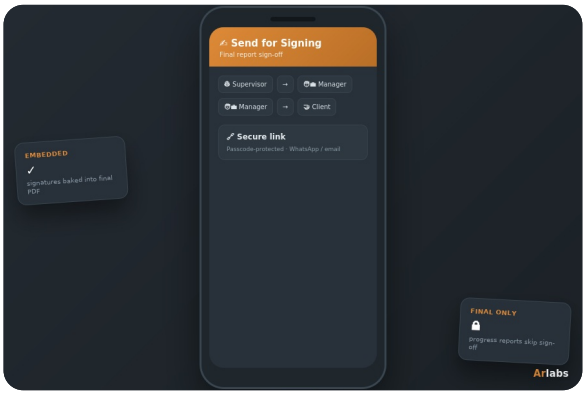
Digital Signing runs a structured Supervisor → Manager → Client sign-off using secure, passcode-protected links shared by email or WhatsApp, with the signatures embedded directly into the final PDF.

Key features

- ✓ Supervisor → Manager → Client workflow
- ✓ Secure passcode-protected signing links (email / WhatsApp)
- ✓ Signatures embedded in the final PDF

Benefits

- ✓ Sign-off without printing or scanning
- ✓ Secure, passcode-protected links
- ✓ Signatures embedded in the record



How it works

1. The report is sent for signing in sequence.
2. Each signer opens a secure link and signs on their device.
3. The signed PDF is finalised and stored.

USE CASE

The final report is signed Supervisor → Manager → Client through secure passcode links shared on WhatsApp, with signatures embedded in the PDF.

SECTION 4.9

Module 9 / 12

Team Performance

See who is delivering.

What it does

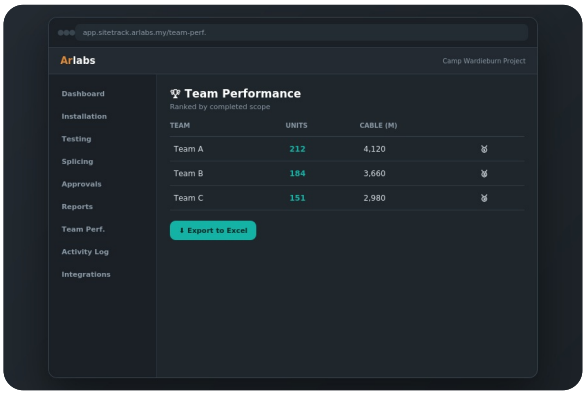
Team Performance ranks teams by houses completed and cable metres laid, with Excel export — giving objective numbers for managing subcontractors and rewarding productivity.

Key features

- ✓ Ranked team completion (houses, cable metres)
- ✓ Excel export for productivity analysis

Benefits

- ✓ Objective productivity numbers
- ✓ Fairer subcontractor management
- ✓ Easy export for analysis



How it works

1. Approved work is attributed to the team that did it.
2. Teams are ranked by completion and cable metres.
3. Export the table to Excel for review.

USE CASE

A project lead exports a ranked table of houses completed and cable metres laid per team to manage subcontractor productivity fairly.

SECTION 4.10

Module 10 / 12

Activity Log & Audit Trail

Every action, on record.

What it does

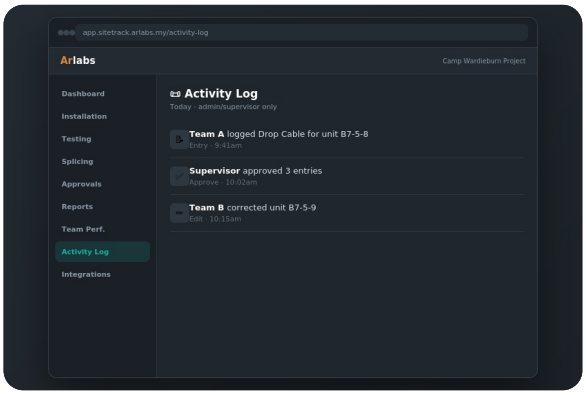
The Activity Log records every entry, edit, deletion, approval and test in plain language, with login/logout tracking — a complete, admin-only audit trail for accountability.

Key features

- ✓ Full activity history in plain language
- ✓ Login / logout session tracking
- ✓ Admin / supervisor-only visibility

Benefits

- ✓ Full accountability, nothing hidden
- ✓ Answers 'who changed what, when'
- ✓ Visible only to admins and supervisors



How it works

1. Every action in the app is logged automatically.
2. Entries read in plain language with author and time.
3. Admins review the trail whenever a figure is questioned.

USE CASE

When a figure is questioned, an admin opens the activity log and sees every entry, edit, deletion and approval in plain language, with who and when.

SECTION 4.11

Module 11 / 12

Built for Malaysian Field Teams

Designed for the people using it.

What it does

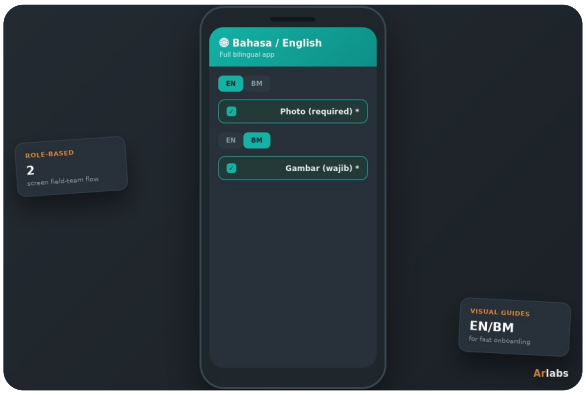
SiteTrack is built for the people using it in the field — full English and Bahasa Melayu, role-based views that give subcontractors a focused two-screen flow, and printable visual guides for fast onboarding.

Key features

- ✓ Full English & Bahasa Melayu
- ✓ Role-based views (focused subcontractor flow)
- ✓ Visual field guides for training (EN / BM)

Benefits

- ✓ Bilingual, no training barrier
- ✓ Focused flow for field crews
- ✓ Fast onboarding with visual guides



How it works

1. Staff choose their language and see a role-based view.
2. Subcontractors work in a simple two-screen flow.
3. Visual guides help onboard new crews quickly.

USE CASE

A new subcontractor is onboarded in minutes using a bilingual visual guide, and works entirely in a focused two-screen flow.

SECTION 4.12

Module 12 / 12

Integrations

Connected to the rest of your operation.

What it does

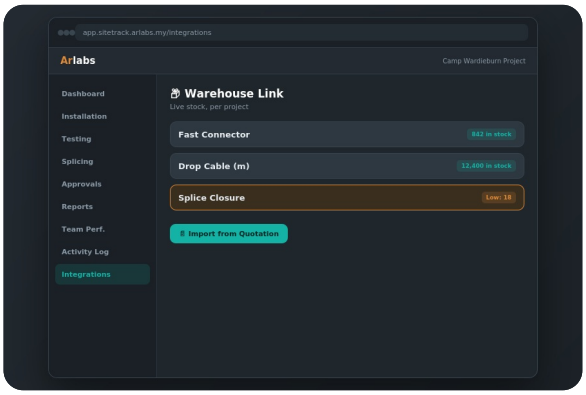
Integrations connect SiteTrack to the rest of the operation — live warehouse and inventory stock, and quotation import that auto-detects project scopes and quantities from invoice PDFs.

Key features

- ✓ Warehouse / inventory linking for live stock
- ✓ Quotation import — auto-detect scopes & quantities from invoice PDFs

Benefits

- ✓ Less manual setup and re-keying
- ✓ Material use tracked against stock
- ✓ Scopes imported straight from quotations



How it works

1. Import a quotation PDF to auto-create scopes and quantities.
2. Link the project to live warehouse stock.
3. Track material usage against what's on hand.

USE CASE

A project auto-imports its scopes and quantities from the quotation PDF and links to live warehouse stock, so material use is tracked against what's on hand.

SECTION 5

Security, compliance & data

Operational records are evidence. Arlabs SiteTrack is designed so that data is isolated, actions are attributable and history cannot be quietly rewritten.

Role-based access control

Users see and do only what their role permits — enforced at the database with row-level security, not just in the interface.

Encryption in transit

All traffic between clients, APIs and the database is encrypted with HTTPS/TLS. Credentials are stored securely and never in application code.

Complete audit trail

Every create, edit, approval, rejection and deletion is logged with the acting user and timestamp. Logs are visible to authorised administrators and cannot be edited.

Backups & recovery

Automated backups with tested restore procedures. Retention periods are agreed per deployment.

Malaysia-ready by default

MYT-accurate timestamps, Malaysian public-holiday and rest-day rules, Bahasa Malaysia and English.

PDPA-aware handling

Personal data is collected and processed only for the purpose of the service. Data-residency and retention options are confirmed per engagement.

Data ownership

Customer operational data remains the customer's property. Records, reports and exports are available throughout the term, and structured data export is provided at termination as part of transition assistance.

Security and compliance features vary by product and deployment; specific controls, hosting region and retention periods are confirmed in the engagement agreement.

SECTION 6

Deployment, engagement & support

Arlabs deploys, configures and supports Arlabs SiteTrack as one accountable partner — from scoping through go-live and ongoing operation.

Typical rollout

Discover

Confirm workflows, roles, sites and success criteria with process owners.

Configure

Set up modules, users, locations, assets and approval chains.

Pilot

Run one workflow with one team; verify data quality and reporting.

Go live

Train users, migrate data and switch official reporting to the system.

Support

Monitor, maintain, enhance and review against SLAs.

Engagement models

Build & run

Adopt the product as a hosted service. Arlabs deploys, configures and supports it for your team, with training and handover.

Custom build

Extend the product or build additional modules to your scope, with clear milestones and a fixed, transparent plan.

Managed support

Ongoing maintenance, enhancements and SLA-backed support for a live deployment, with tiered response targets.

What is included

- ✓ Web dashboard and mobile app access for licensed users
- ✓ Environment configuration, release records and documentation
- ✓ Administrator and process-owner training
- ✓ Defect rectification warranty after acceptance
- ✓ Support during Malaysian business hours; extended tiers available

Commercial terms, licensing model and support tiers are provided in a separate proposal. Pricing is available on request.

SECTION 7

About Arlabs

Arlabs Sdn. Bhd. is a Malaysian software and technology company. We design, build and run our own software products — and bring the same disciplined, accountable delivery to custom work for our clients.

Our products

- ✓ **Arlabs CRM & Operations** — Flagship product, 14 modules
- ✓ **Arlabs Command** — Command centre, 12 modules
- ✓ **Arlabs SiteTrack** — Field-ops product, 12 modules
- ✓ **Arlabs Hadir** — Attendance & HR product, 8 modules
- ✓ **Arlabs Kira Kira** — Accounting product, 10 modules

What we do

Software development, web and mobile apps, IT consultancy, system integration, cloud and infrastructure, cybersecurity, data and dashboards, AI and automation, and IT support and maintenance.

Registered name	Arlabs Sdn. Bhd.
Registration no.	202001027077 (1383397-M)
Incorporated	8 September 2020
MSIC codes	62010 · 62021 · 62099
Based in	Selangor, Malaysia
Email	hello@arlabs.my
Web	arlabs.my

Why teams choose us

- ✓ We build and run our own products
- ✓ End-to-end delivery, one accountable partner
- ✓ Senior, hands-on team
- ✓ Built for Malaysian conditions

See Arlabs SiteTrack on your own operation.

Book a walkthrough with our team. We will map the modules to your workflows, confirm the scope, and show you exactly what your teams and management would see.

hello@arlabs.my · arlabs.my

Book a demo

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