

Product catalog

Operational excellence for industrial plants — introduced module by module, starting from the digital shift diary.

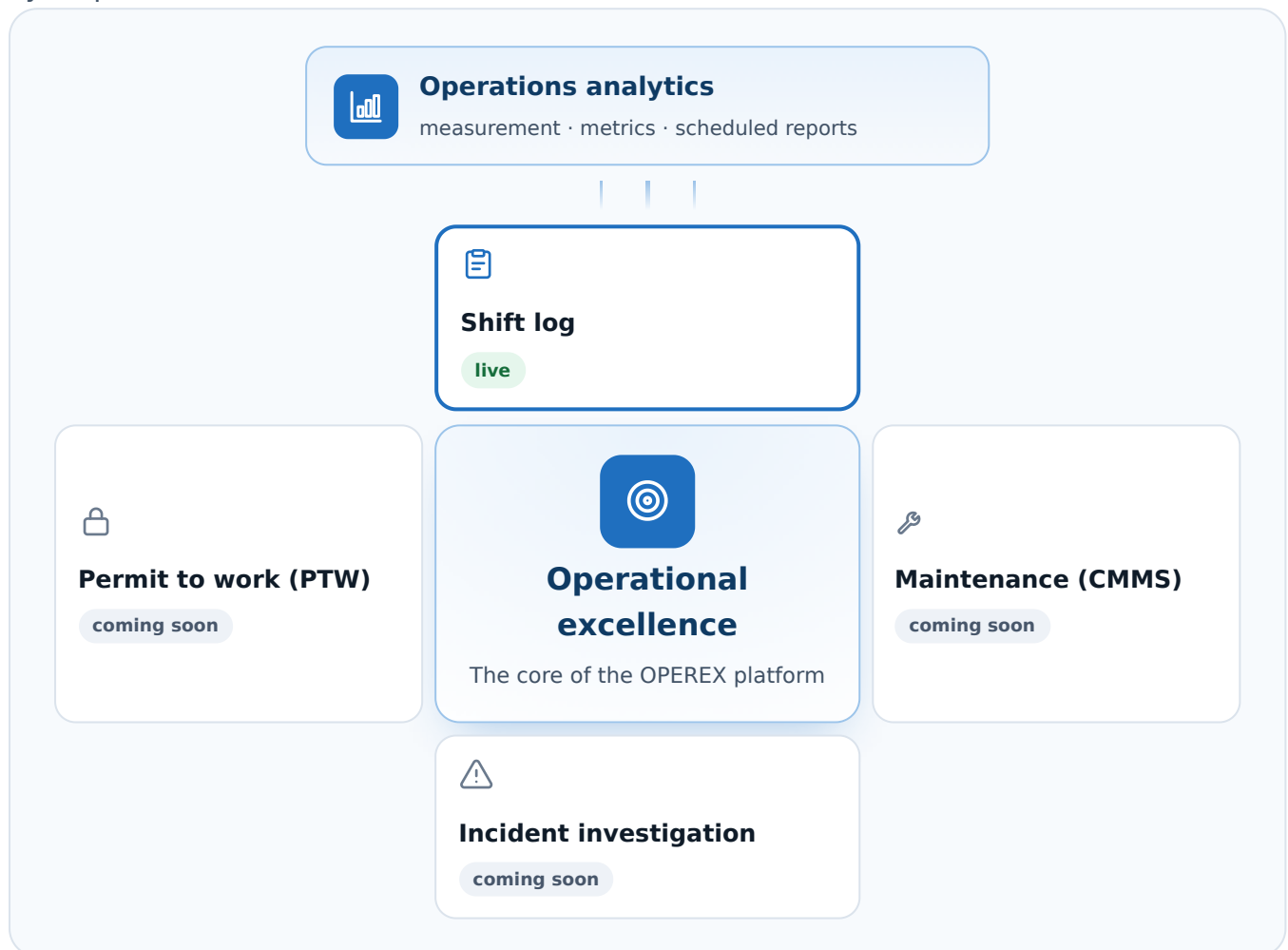
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THE PLATFORM

One core, growing modules

Operational excellence is the core — modules plug in around it and go live step by step.



OPEREX is a modular platform: it turns daily operations into auditable, measurable excellence — adopted at your organisation's own maturity. The first live module is the digital shift diary; the others (incident investigation, permit to work, maintenance) go live step by step, on a shared data model and an end-to-end §10.2 audit trail.

Grows module by module

No required order — start where the gap is biggest.

Auditable throughout

Every module builds on the same §10.2 append-only trail.

EU data residency

Self-hosted, even air-gapped for regulated sites.

Digital shift diary for industrial plants

The shift diary is the entry module of the OPEREX system: it connects the daily handover, event capture and management reporting into one auditable flow. Instead of paper and spreadsheets — structured, searchable data, every entry timestamped, attributed, immutable. For continuous-process, regulated industrial sites.

1

live core module (Shift diary)

+3

modules on the way
(RCA · PTW · CMMS)

\$10.2

auditable trail
(append-only)

EU

data residency · GDPR

WHAT THE DIARY DOES



Role-based access (operator, supervisor, plant manager, data steward; custom roles)



Multiple plants and sites under one organisation



Automatic log lifecycle (scheduled open/close from the shift rota)



Standing orders and recurring / carried-over tasks



Event and incident log (HSE severity, open→investigating→closed lifecycle)



Shift attendance from a managed worker roster



Customisable log (drag-and-drop builder + templates)



Filterable, searchable archive



Tamper-proof PDF report for every closed shift



Automatic email delivery to contacts



Append-only, immutable audit trail (ISO 45001 §10.2)



Data export to CSV/Excel



EU data residency (GDPR); offline / air-gapped / on-premise



Multilingual interface (Hungarian and English today, extendable)

Operations analytics — a metric from any data point

The paid Analytics module builds metrics from data the shift diary already collects — retroactively too, with no migration. Not a separate BI system: the diary's data, in the diary's language.

WHY OPEREX ANALYTICS

- A metric from any collected data point — free formula, operators, error states.
- Computes retroactively — over existing diaries, not just new data.
- Honest numbers — each metric with its fill rate; missing data isn't zero, a rate isn't an average of rates.
- Scheduled reports — weekly/monthly delivery, drill-down export (CSV/Excel).

WHAT ANALYTICS DOES

- ✓ Free formula editor (data points, operators, count anchor)
- ✓ Trend, bar breakdown, scatter — by dimension
- ✓ Availability, MTBF/MTTR computed metrics
- ✓ Site / plant / shift breakdown and filtering
- ✓ Target/threshold per metric, in canonical units
- ✓ Scheduled delivery + delivery log

DEPLOYMENT MODELS

Starter

shared cloud — single site / SME, no dedicated IT (typically <50 people), own subdomain

Business

dedicated cloud — multi-department / multi-site, white-label, custom domain (typically 50-200)

Enterprise

self-hosted / air-gapped — large, regulated, multi-site; data sovereignty, Seveso-capable, custom SLA (200+)

Security and compliance

OPEREX is built for continuous-process, hazardous (Seveso-class) sites — where data confidentiality, audit trail and data residency are not optional. The following are measured, enforced properties of the product.

Data isolation and access

- Tenant isolation enforced at the database level (Row-Level Security, FORCE), not just in the app.
- Role-based access per organisation, with custom roles and a permission matrix.
- Site-level access list — a user only sees the sites entrusted to them.

Data residency and deployment

- EU data residency; self-hosted, even air-gapped (Docker) deployment on Enterprise.
- Portable data layer (standard PostgreSQL) — no vendor lock-in; your own identity provider (SSO) can be wired in.
- Object storage (S3/MinIO) for diaries/images, with authenticated access.

Audit trail (in the spirit of ISO 45001 §10.2)

- Append-only audit log: entries recorded with timestamp, author, immutably.
- The diary and reports produce a canonical, versioned PDF artifact (old versions retained).
- User login history; sensitive operations logged.

Platform hardening

- HTTPS everywhere (HSTS), content security policy (CSP), security response headers.
- Login/password-reset/API rate-limited; invite-only registration.
- Secrets in environment variables (never in code); firewall + least-privilege DB role.

Compliance statements are verifiable technical properties. An external pentest can be scheduled before the first Enterprise rollout. Contact us for details.

OPEREX — product datasheet

Digital shift diary + operations modules for continuous-process industrial sites.

MODULES

Shift diary (core)	Structured log, roster/attendance, instructions, events, maintenance
Operations analytics	Metrics from any data point, trends, scheduled reports (add-on)
Report export	Canonical PDF + CSV/Excel, customisable template

DEPLOYMENT MODELS

Starter	Shared cloud, one site, EU residency (RLS-isolated)
Business	Dedicated cloud, multiple sites, white-label, custom domain
Enterprise	On-premise / air-gapped (Docker), your SSO, custom SLA

TECHNICAL

Data layer	Standard PostgreSQL (portable, no lock-in)
Storage	S3-compatible (MinIO / cloud), authenticated access
Language	Multilingual UI (HU/EN, extensible), per-tenant setting
Export	PDF (canonical, versioned), CSV, Excel
Authentication	Email + password; Enterprise: SSO (Keycloak/OIDC)