CKN ACE Data Platform

Overview

OVERVIEW

Product type	Data platform: connections, catalog, federated query, ETL, live monitor, REST API
Version	`6.0`
Interface	Browser-based web app, mobile layouts supported
Business data	Stays in the customer's source systems

Data sources

CONNECTORS

Type	Read	Write	Query
PostgreSQL	●	●	●
MySQL	●	●	●
Oracle	●	●	●
SQL Server	●	●	●
MongoDB	●	●	● filter / aggregation
Excel · CSV · JSON · NDJSON	●	● sink / export	—
SAP	Via exported files (Excel / CSV) · direct connection: contact our team		

All types: connection test, list and describe, profile, row preview · per-connection access: read or read-write

Catalog

CATALOG

Search	Column-name search across all sources, with facets
Details	Structure, sample rows, dependents and ER diagram
Column profile	Nulls, distinct, min, max, sample values (from a capped sample, never a full scan)
More	Annotations and pins, schema-drift detection, DDL export per SQL dialect
Refresh	Background job with progress, or a cron schedule

Query

FEDERATED SQL

Engine	DuckDB, with filter pushdown to each source and semi-joins
Native mode	Single connection, bound-parameter SQL or a Mongo filter, up to `1,000` rows
Read-only	READ ONLY transactions on PostgreSQL, MySQL and Oracle
Tools	Explain · history · saved queries with `$name` parameters · scheduled runs
Background runs	Progress tracking, results kept as Parquet for `24 h`
Result delivery	CSV · Parquet · JSON · upsert/replace into a table · webhook (queued, up to 6 attempts)
Defaults	`200` rows (max `10,000` per call) · timeout `30 s` (admins up to `600 s`) · `500,000` rows per source · 4 concurrent queries

All limits are configurable

ETL pipelines

PIPELINES

Authoring	Guided setup (source → existing target → mapping → checks → save/run/schedule) or a drag-and-drop canvas
Operators (17)	`filter` · `select` · `rename` · `cast` · `flatten` · `explode` · `nulls` · `dedup` · `hashJoin` · `tagSource` · `union` · `deriveFields` · `lookup` · `validate` · `route` · `window` · `windowJoin`
Expressions	Structured JSON, no code execution
Run modes	stream (default) · memory · hybrid · batch `1–10,000` rows (default `500`) · event-time windows
Write mode	Insert, or upsert by key
Preview	Default `50` rows · nothing written to the target
Readiness check	Reports blockers, warnings and unknowns before a real run
Scheduling	Cron with time zone, runs as the recorded owner

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Pipelines (cont.)

OPERATIONS

Incremental	Polling cursor · lookback · soft-delete marker · isolated backfill · cursor reset
Versions	Immutable history · compare · restore as a new version · stale-save protection
Retry / Recovery	Connector retry up to 10 · whole-run recovery (opt-in) up to 5 times, with an upsert target
Rejected rows	fail · skip · quarantine (default) · replay or discard by step and error kind
Notifications	In-app history + webhook: completed · failed · partial · cancelled · rejected rows · recovered · stalled
Trigger API	`POST /dp/pipeline/trigger` · Idempotency-Key · up to 20 typed parameters · latest or pinned revision · returns 202 with a status URL
Incoming webhook	HMAC-SHA256 signatures · key rotation with grace period · expiry 1–365 days
Import / export	CSV · NDJSON · JSON · Excel

Live Monitor

OBSERVABILITY

Dashboards	Flow map · Data pulse · Control room · Freshness & quality · Query & API
Refresh	WebSocket every 2 s (HTTP fallback every 3 s)
Window	Last 15 minutes · Data pulse in 5 s buckets
Control	Cancel running jobs across processes · no SQL text or business data recorded
More	Overview and Ops pages with an alert watchdog · `/healthz` · `/readyz` · `/metrics`

Views & REST API

DELIVER

Serving modes	live · cached (TTL up to 24 h) · materialized (cron or continuous refresh)
Endpoint	`GET /dp/view/data?code=…`
Parameters	`limit` 1–1,000 · `offset` ≤ 1,000,000 · `select` ≤ 200 columns · `filters` ≤ 20 (= != > >= < <= in · is null · is not null) · `orderBy` ≤ 10
Docs	OpenAPI 3.1 download · cURL example · Test API button
AI agents	MCP server (`/mcp`, dp:read): column search · Explain · SQL

Security

SECURITY

Identity	Built-in OAuth 2.1 authorization server: authorization code + PKCE (S256) · refresh token · client credentials · RS256 · discovery · JWKS · userinfo · revoke · introspect
Scopes	`openid · profile · email · dp:read · dp:write · dp:admin`
Access	Administrators + read/write grants per connection
Sign-in	Sign-in page with a rolling 12 h session · API keys (stored as SHA-256)
Protection	CSRF · idempotency · rate limits · security headers · CORS · audit log
Secrets	Credentials encrypted with AES-256-GCM · scrypt password hashes · credentials never returned
Outbound network	Blocks metadata and self addresses · allow-list for webhooks and hosts

Deployment

DEPLOYMENT

Runtime	Node.js 24 · TypeScript · Docker image (node:24-alpine)
System database	PostgreSQL (configuration and run history)
Processes	Web server + optional separate worker for scheduled work · default 4 concurrent pipelines per process
Configuration	Environment variables
Quality	Database test suite 487/487 passing · usage scenarios 75/75 passing

Contact

CONTACT

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