CloudWinks

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TjingTjing

Technical brief

TjingTjing is the payroll app. It pays employees from approved hours, produces payslips, tracks leave, benefits and tax forms, and posts every locked payroll run to the books in BeanCounter.

1. Architecture in brief

TjingTjing is a Financial app with company tenancy and the tjng_ prefix. Employees are an extension of the Crux person record with their own key and class, holding a KeyKook vault reference and the last four digits instead of Social Security or bank numbers. A per-country setup table holds payroll parameters; the United States is the first row. Calculation, approval, locking, year-to-date totals and form totals are server-side functions and views over locked payroll lines. All TjingTjing classes can be embedded in other apps as controls behind KeyKook payroll roles, masked by default.

2. Service boundary and intake

Hours come only from TimeTracker's approved-hours view (approved and locked rows), with overtime pay derived from TimeTracker's hour classification times a TjingTjing multiplier. A run is calculated, sent through TheBoss's payroll approval and locked; locking calls one named BeanCounter posting function that is idempotent on the run. Approval state stays on the payroll rows, and a TaskMaster task opens only when a person must act. QuickBooks payroll history (paychecks, payroll items, year-to-date figures and liability checks) is imported through TheIntegrator, with SSNs going straight into the KeyKook vault. Year-end and quarterly forms are generated, validated, approved by a payroll administrator and submitted to the e-file provider through TheIntegrator, which tracks filing status and corrections (W-2c and 941-X).

3. Data handled

The model holds employees, dated pay rates, payroll periods, runs and payroll lines, leave policies and balances (hours taken come from approved TimeTracker hours; accrual rules come from the country setup), dependents linked as Crux persons, benefit plans, enrolments and coded benefit and life events, ACA measurements and COBRA elections, dated tax elections and work and home jurisdictions using Crux ISO codes, tax forms and their lines, tax filings and their status, payslip deliveries and a reveal log. Codes are seeded from the legacy value lists, with US-only groups tied to the US setup row. BeanCounter holds cost and bill rates; TjingTjing holds pay rates only.

4. Integrations and ownership

Crux supplies persons, dependents and jurisdiction and currency codes. TimeTracker supplies approved hours and exceptions. BeanCounter receives locked runs and holds reimbursement bills. KeyKook holds the vault, payroll roles and multi-factor sign-in. TheBoss runs payroll approval with the approver-is-not-preparer check, backed by GoldenRule payroll controls. TheReporter renders payslips, W-2, W-3 and 941 in Spanish and English; MediaMogul stores them as private files; BigTalk sends the payslip link by email or push. TheIntegrator carries the QuickBooks import and e-file submission.

5. Security and access

Social Security numbers, bank numbers and tax ids live only in the KeyKook vault; TjingTjing shows the last four digits, and an unmasked value is read from the vault only when a form is rendered or submitted. Reveals need a payroll-administrator role and are logged with who, whom, why and when. Payroll roles require multi-factor sign-in, and self-approval is blocked even for administrators. Payslip messages carry no amounts; the employee signs in through KeyKook to open the payslip, and an encrypted PDF attachment is optional.

Competitive context

ALTERNATIVE	ITS FOCUS	CLOUDWINKS PRODUCT FOCUS
Gusto	Payroll with automatic tax filing, W-2s and 1099s, benefits, PTO and employee self-service.	Pay calculated from hours approved in the same platform and posted to the same company books, with country rules held as data.
RUN Powered by ADP	Small-business payroll with tax filing, W-2 and 1099 generation and employee self-service.	Payroll controls, masked payroll data and payslip delivery built on shared CloudWinks identity, vault, approval and reporting services.

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