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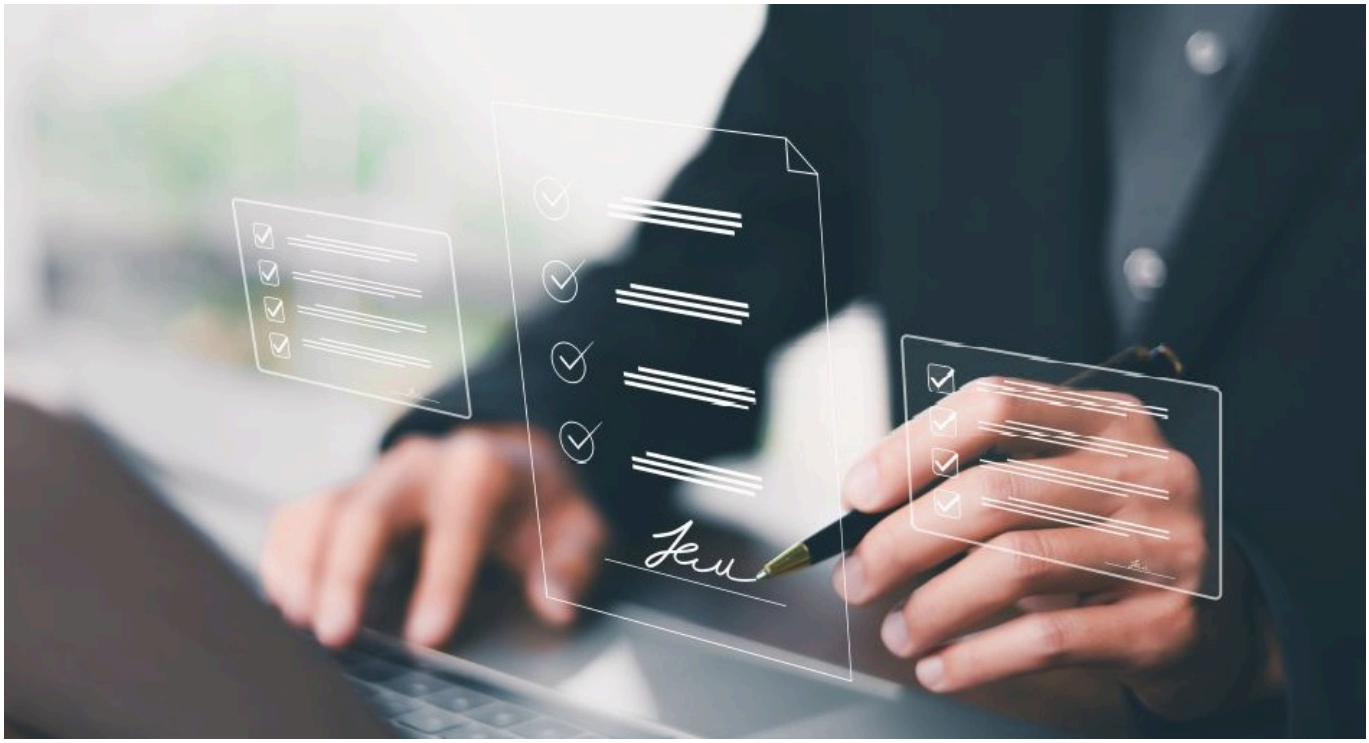
TECH OFFER

AI-Powered Document & Contract Lifecycle Management Platform



KEY INFORMATION

TECHNOLOGY CATEGORY:
Infocomm - Enterprise & Productivity
Infocomm - Data Processing

TECHNOLOGY READINESS LEVEL (TRL): TRL8
COUNTRY: SINGAPORE
ID NUMBER: TO175371

OVERVIEW

Many organisations rely on unstructured workflows across legal, procurement, HR, finance, sales, supply chain and production, resulting in inconsistent policy enforcement and limited visibility over contract and audit obligations. This technology solves the widespread inefficiencies of manual and fragmented contract or approval processes, which often lead to delays, compliance gaps, revenue leakage, and increased legal exposure.

The technology provides an AI-powered contract lifecycle management platform that streamlines document/contract generation, redlining, approval, execution, and tracking within a single digital workspace. It enables business users to independently generate compliant contracts using pre-approved templates and embedded rules, while still allowing internal teams to maintain oversight and enforce standards. The platform features clause-level risk analysis, AI-assisted contract review, a no-code workflow engine, and audit-ready document integrity checks. By automating routine legal work and centralising contract data, the technology reduces turnaround time, improves compliance, and frees legal/compliance teams to focus on higher-value tasks. It meets a growing market need for scalable, policy-aligned contract systems that are secure, user-friendly, and adaptable across different

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compliance requirements.

This solution is designed for enterprises, government agencies, and regulated institutions with high volumes of contracts and strict policy controls. It is especially relevant to industries such as banking, real estate, manufacturing, logistics, education, and telecommunications. The technology owner is looking to partner with solution adoptors to customise platform functions to specific use cases.

TECHNOLOGY FEATURES & SPECIFICATIONS

Features:

- Secure, scalable architecture. Deployment options include public cloud, private cloud, or hybrid models. System availability is maintained through automated backups, disaster recovery protocols, and uptime monitoring aligned with enterprise SLAs.
- The platform includes API connectors for integration with third-party systems such as ERP, CRM, and file repositories. It supports multi-language deployments, full audit trails, and advanced user permissions for both centralised and decentralised teams.
- Modular design that allows organisations to configure contract processes based on internal policies, user roles, and jurisdictional requirements.
- The system offers granular access control (including RBAC and ABAC) and complies with global regulatory frameworks such as ESIGN, eIDAS, GDPR, and HIPAA.
- Transparent, usage-based pricing with unlimited digital signings.
- Comprehensive local after-sales support that follows through from integration to ongoing operations and beyond, ensuring client success and continuous improvement.
- Continuous optimisation and feedback integration with a dedicated support team for post-implementation reviews to ensure continued alignment.

System Components:

- A template and clause library with version control for rapid document generation.
- An AI-powered review engine that analyses contract text, compares it to internal playbooks, and flags non-compliant clauses.
- A document integrity checker capable of detecting changes across native, scanned, and image-based files.
- A no-code workflow builder that configures approval paths, escalation rules, and role-based access control without developer intervention.
- A real-time tracking dashboard that monitors contract status, key dates/deadlines, and renewal obligations to ensure accountability throughout the lifecycle.
- A native digital signature module that supports legally recognised e-signatures in multiple jurisdictions.

POTENTIAL APPLICATIONS

This technology can be deployed across industries that require structured, high-volume contract processing and enforceable compliance controls. It is particularly suited to organisations with decentralised teams or multi-tiered approval structures where coordination, legal/audit risk, and turnaround time are critical operational concerns.

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- **Financial services:** the technology supports contract automation for lending agreements, NDAs, supplier contracts, and internal governance documentation.
- **Real estate and construction sectors:** it is used to manage leasing agreements, contractor onboarding, and procurement workflows.
- **Manufacturing and logistics:** firms benefit from streamlined handling of distribution agreements, service-level agreements (SLAs), international vendor contracts and management of manufacturing documents.
- **Public sector:** the platform enables statutory bodies and agencies to digitise internal workflows while complying with transparency and audit requirements.
- **Educational institutions:** platform to support research collaboration agreements, student placement contracts, and licensing arrangements.
- **Others**: The technology is also applicable in telecommunications, energy, and healthcare, where regulatory requirements, jurisdiction-specific clauses, and ongoing contract obligations must be managed consistently.

MARKET TRENDS & OPPORTUNITIES

The global market for contract lifecycle and digital signature solutions is experiencing rapid growth, driven by rising compliance demands, increased contract volumes, and the need for secure remote collaboration. The contract lifecycle management (CLM) segment alone is expected to surpass USD 5.8 billion by 2030, while the digital signature market is projected to grow from USD 2.5 billion in 2023 to USD 22.5 billion by 2032, reflecting a strong compound annual growth rate (CAGR) of over 27%.

Asia-Pacific, North America, and Europe are major growth regions, with the Asia-Pacific market projected to reach USD 12 billion by 2030. This growth is supported by increasing adoption of legal tech tools in sectors such as banking, real estate, manufacturing, healthcare, and the public sector. This technology stands out in a crowded field by offering a truly end-to-end CLM platform that includes native AI tools, such as clause-level risk analysis, smart redlining suggestions, and document integrity checks.

UNIQUE VALUE PROPOSITION

This technology represents a substantial improvement over the current state of contract management by replacing manual, disjointed processes with streamlined, AI-driven workflows. It transforms contract operations from reactive, document-heavy tasks into proactive, data-informed functions that support business strategy.

- **Efficiency gains and cost savings:** Clients have achieved potentially up to 45% faster contract cycles and 80% faster drafting. Automated workflows and integrated e-signatures shorten approval and execution times, while standardised templates and AI-assisted review reduce drafting effort and ensure compliance. Obligations tracking prevents missed renewals and revenue leakage, and integration with enterprise systems eliminates duplicate data entry. Together, these capabilities transform contract management into a faster, more accurate, and cost-efficient process.
- **Integrated Proprietary AI:** Instead of providing e-signature and CLM modules separately or rely on third-party AI, this solution offers purpose-built automation across pre-signature and post-signature stages. These differentiators make the platform attractive to enterprises and institutions seeking secure, scalable, and intelligent contract management beyond basic storage and signature tools. Proprietary AI modules are trained on client-specific data, enabling accurate clause analysis, automated contract reviews, and policy-aligned compliance checks.
- **Frictionless collaboration:** Features like in-platform commenting and secure chat promote cross-functional teamwork.

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- **Strategic visibility:** Built-in analytics surface insights on contract performance and bottlenecks, supporting data-driven legal/documentation operations and helping teams demonstrate business value.

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