

## TECH OFFER

### Revolutionary AI Low-Code Data Processing & Automation Platform for Digital Transformation



## KEY INFORMATION

### TECHNOLOGY CATEGORY:

Infocomm - Enterprise & Productivity

Infocomm - Internet of Things

Logistics - Value-Added Services

Infocomm - Healthcare ICT

TECHNOLOGY READINESS LEVEL (TRL): **TRL9**

COUNTRY: **SINGAPORE**

ID NUMBER: **TO175389**

## OVERVIEW

Enterprises today face mounting challenges from legacy systems, fragmented data silos, and complex integration issues that slow down digital and AI initiatives. This AI-powered automation platform transforms integration from a technical bottleneck into a strategic accelerator, enabling organizations to unlock trapped data assets worth billions.

By automating up to 70% of manual coding, the platform accelerates processing speeds by up to 10x while reducing operational costs. Its visual drag-and-drop interface democratizes data access, addressing the \$5.5 trillion global skills gap by removing the need for specialized coding expertise. Enterprises can cut data preparation efforts from 80% to 20% of project cycles, connecting legacy mainframes seamlessly with modern cloud applications.

The urgency is clear: the data integration market is projected to reach \$47.6 billion by 2034, yet 95% of IT leaders cite

integration as the main barrier to AI adoption. Meanwhile, silos cost enterprises hundreds of thousands annually, and up to 80% of data projects fail due to poor preparation.

This platform empowers organizations to process millions of records in minutes across hybrid, cloud, and on-premises environments. Early adopters already report 171–295% ROI within three years, six-month payback periods, and over \$2.4 million in productivity gains. With 70% of new applications expected to leverage low-code/no-code by 2026, this solution positions enterprises to lead the next wave of intelligent automation.

## TECHNOLOGY FEATURES & SPECIFICATIONS

1. Low-code visual interface — drag-and-drop workflow designer for ETL (Extract, Transform, Load) without heavy coding.
2. Broad connectivity — supports diverse data formats and protocols for integration with:
  - Legacy mainframe systems (IBM IMS, DB2, VSAM, CICS)
  - Modern databases
  - Cloud services
  - APIs
  - IoT devices
3. Flexible deployment options — on-premises, private cloud, public cloud, or hybrid; containerized on Kubernetes for easy scaling and management.
4. Unified real-time computing architecture — includes:
  - Event message storage
  - Operational logic management
  - Built-in data monitoring
  - Real-time statistical computation
5. Processing modes — supports both batch and streaming data processing for near real-time synchronization.
6. No-code API generation — instantly create RESTful APIs without microservices coding.
7. Multi-API integration — combine outputs from multiple third-party APIs in a single workflow.
8. Automated data format conversion — convert JSON, XML, CSV, and other formats without custom scripts.
9. Built-in debugging console — instant result checks and error tracking to speed up development.
10. Centralized monitoring & alerting — end-to-end oversight of integration pipelines, infrastructure, and app performance.
11. Lightweight, high-throughput — typical unit requires 2 vCPU + 4GB RAM, capable of processing millions of records in minutes.
12. Enterprise-grade resilience — scalable, secure, and compliant with regulatory and operational requirements.

The technology provider is seeking partners with multinational corporations, enterprises, and system integrators to transform integration from a technical bottleneck into a strategic enabler, delivering scalable, secure, and compliant solutions that

accelerate digital transformation and data-driven decision-making.

## POTENTIAL APPLICATIONS

### 1. Banking & Financial Services

- Modernises legacy core banking systems by integrating mainframe and cloud data.
- Automates ETL workflows for compliance, reporting, and AI-driven fraud detection.
- Reduces operational costs and shortens reporting cycles.

### 2. Healthcare

- Unifies patient, lab, and imaging data from multiple systems for holistic care.
- Enables real-time alerts and analytics for faster clinical decisions.
- Supports paperless workflows for patient onboarding and records management.

### 3. Telecommunications

- Connects customer, billing, and network data from disparate platforms.
- Enables real-time service monitoring and customer experience optimisation.
- Reduces integration time for mergers, acquisitions, or system upgrades.

### 4. Manufacturing

- Integrates shop-floor IoT, supply chain, and ERP systems.
- Enables predictive maintenance, quality control analytics, and production optimisation.

### 5. Government & Public Sector

- Consolidates siloed departmental databases for unified citizen services.
- Automates reporting for compliance, ESG initiatives, and budget monitoring.

### 6. Cross-Industry Applications

- Real-time data synchronisation between legacy and modern systems.
- Low-code API generation to quickly integrate new applications.
- Hybrid cloud deployment for flexible, secure data operations.

### 7. Agritech / Smart Farming

- Automates data collection from IoT sensors (soil moisture, weather, crop health).
- Processes and integrates sensor, drone, and satellite data in real time.
- Enables precision agriculture—optimised irrigation, fertiliser use, and pest control.
- Supports predictive analytics for yield forecasting and early issue detection.

## MARKET TRENDS & OPPORTUNITIES

- **Rising Digital Transformation Demand** – Enterprises urgently need agile, low-code data platforms to modernize

infrastructure and accelerate innovation.

- **Hybrid Cloud & Legacy Integration Gap** – Strong demand for solutions bridging mainframes, cloud, APIs, and IoT in a seamless, cost-effective way.
- **AI & Analytics Growth** – Timely, integrated data is now a critical enabler for AI adoption and real-time decision-making across industries.
- **Talent Shortage in Legacy Systems** – Scarcity of mainframe/ETL specialists drives adoption of low-code tools that reduce technical dependency.
- **Cost & Efficiency Pressures** – Enterprises seek platforms that cut IT spend while delivering faster deployment and operational savings.

## UNIQUE VALUE PROPOSITION

A versatile solution that powers AI, advanced analytics, and digital transformation across diverse sectors, including finance, healthcare, telecom, manufacturing, agritech, and beyond with many UVPs; here are the top five:

1. **Significant Cost Savings** – Reduces total cost of ownership by up to 90% compared to traditional ETL/data tools.
2. **Unified Data Access** – Connects legacy mainframes, modern databases, cloud apps, APIs, and IoT into one seamless platform.
3. **Low-Code Speed** – Drag-and-drop workflows cut development effort by up to 80% and deliver deployment in days.
4. **High Performance, Low Resource** – Processes millions of records in minutes with minimal hardware (2 vCPU, 4GB RAM per unit).
5. **Near Real-Time Insights** – Enables faster, data-driven decisions with clean, integrated data for AI and analytics.