IT Systems and Application Landscape Report

Confidential Document

Prepared for: Potential Merger & Acquisition Due Diligence

Prepared by: Internal Technology Assessment Team

Date: January 22, 2024

1. Executive Summary

This comprehensive IT Systems and Application Landscape Report provides a detailed assessment of Nexus Intelligent Systems, Inc.'s technological infrastructure, software ecosystem, and critical technology assets as of January 2024. The report is designed to support comprehensive due diligence processes and provide a transparent overview of the company's technological capabilities and potential technological liabilities.

2. Technology Infrastructure Overview

2.1 Core Technology Stack

- Primary Cloud Infrastructure: Amazon Web Services (AWS)

- Kubernetes Container Orchestration: Version 1.24.3

- Primary Programming Languages:

- Python (Primary: 3.9.x)

- Java (Secondary: 11.0.x)

- Go (Microservices: 1.19.x)

2.2 Infrastructure Deployment

- Cloud Regions: US-East-1, US-West-2

- Deployment Model: Hybrid Cloud with 60% public cloud, 40% private cloud infrastructure

- Disaster Recovery: Multi-region redundancy with 99.99% uptime commitment

3. Application Landscape

3.1 Core Enterprise Applications

| Application Name | Vendor | Purpose | Licensing Status | Annual Cost |

| ---------------- | -------- | --------- | ---------------- | ------------ |
Salesforce Enterprise	Salesforce	CRM Platform	Fully Licensed	$124,500
Workday HCM	Workday	Human Capital Management	Active Subscription	$87,300
ServiceNow ITSM	ServiceNow	IT Service Management	Enterprise License	$95,700
Databricks Analytics	Databricks	Machine Learning Platform	Enterprise Tier	$210,000

3.2 Custom Development Platforms

- Internal AI/ML Development Framework: Proprietary "NexusCore" platform

- Microservices Architecture: Containerized, cloud-native design

- Development Methodology: Agile with DevOps continuous integration

4. Technology Asset Valuation

4.1 Intellectual Property Assessment

- Registered Software Patents: 7

- Pending Patent Applications: 3

- Estimated Intellectual Property Valuation: $4.2M - $5.7M

4.2 Technology Asset Depreciation

- Average Hardware Depreciation Cycle: 3-4 years

- Software Licensing Refresh: Annual

- Total Technology Asset Book Value: $2.1M

5. Cybersecurity and Compliance

5.1 Security Certifications

- SOC 2 Type II Compliant

- ISO 27001:2013 Certified

- GDPR and CCPA Compliance Verified

5.2 Security Infrastructure

- Endpoint Protection: CrowdStrike Falcon

- Network Security: Palo Alto Networks

- Multi-Factor Authentication: Okta Enterprise

- Annual Security Audit: Conducted by Ernst & Young

6. Technology Risk Assessment

6.1 Identified Potential Risks

- Legacy System Integration Complexity

- Potential Technical Debt in Older Microservices

- Dependency on Specialized AI/ML Talent

6.2 Mitigation Strategies

- Ongoing modernization roadmap

- Continuous talent acquisition and training programs

- Regular technology stack review and optimization

7. Limitations and Disclaimers

This report represents a point-in-time assessment of Nexus Intelligent Systems' technology landscape. All information is provided "as-is" without warranty of completeness or accuracy. Potential acquirers or investors are strongly advised to conduct independent technical due diligence.

8. Signatures

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Nexus Intelligent Systems, Inc.

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