

Digital Infrastructure Mapping Report Q3

Confidential Document - Nexus Intelligent Systems, Inc.

1. Executive Summary

This Digital Infrastructure Mapping Report ("Report") provides a comprehensive assessment of Nexus Intelligent Systems, Inc.'s ("Company") digital infrastructure as of September 30, 2023. The report represents a detailed technical and legal inventory of the Company's technological assets, network architecture, and critical digital infrastructure components.

2. Scope and Methodology

1 Assessment Parameters

- Comprehensive infrastructure audit conducted between August 15-September 22, 2023
- Utilized proprietary diagnostic tools and third-party verification protocols
- Covered all enterprise technology assets, cloud infrastructure, and network systems

2 Evaluation Methodology

- Full network topology mapping
- Security infrastructure assessment
- Performance and reliability analysis
- Compliance and regulatory review

3. Infrastructure Inventory

1 Network Architecture

- Primary Data Center: AWS US-West-2 Region (Oregon)
- Secondary Disaster Recovery Site: Azure East US 2 Region
- Total Network Footprint: 3 primary and 2 secondary data center locations
- Total Compute Infrastructure: 247 virtual servers
- Total Storage Capacity: 682 TB distributed cloud storage

2 Cloud Service Breakdown

- Amazon Web Services: 62% of infrastructure
- Microsoft Azure: 33% of infrastructure

- Google Cloud Platform: 5% of infrastructure

4. Technology Asset Categorization

1 Compute Resources

- Kubernetes Clusters: 14 production environments
- Virtual Machine Instances: 247 active instances
- Container Deployment: 386 active containerized applications
- Average Compute Utilization: 68.3%

2 Storage Infrastructure

- Total Storage Capacity: 682 TB
- Storage Type Breakdown:
- Block Storage: 42%
- Object Storage: 38%
- Archival Storage: 20%

3 Network Configuration

- Total Network Endpoints: 412
- Active Firewall Rules: 876
- VPN Tunnels: 23 secure connections
- Average Network Latency: 12ms inter-region

5. Security and Compliance Assessment

1 Security Certifications

- SOC 2 Type II Compliant
- ISO 27001:2013 Certified
- GDPR Data Protection Verified

2 Security Infrastructure

- Intrusion Detection Systems: Active
- Multi-Factor Authentication: Implemented across all systems
- Encryption Standards: AES-256 for data at rest and in transit
- Annual Penetration Testing: Completed September 15, 2023

6. Performance Metrics

1 System Availability

- Overall Uptime: 99.97%
- Mean Time Between Failures: 8,742 hours
- Incident Response Time: <15 minutes

2 Performance Indicators

- Average Request Latency: 42ms
- Peak Concurrent Users: 4,672
- Daily Transaction Volume: 1.2M transactions

7. Risk and Limitations

1 Potential Infrastructure Risks

- Legacy system integration challenges
- Potential capacity constraints in high-growth scenarios
- Ongoing cloud service provider dependency

2 Recommended Mitigation Strategies

- Implement multi-cloud redundancy
- Accelerate containerization efforts
- Develop enhanced disaster recovery protocols

8. Disclaimer

This report is prepared for internal use and represents a point-in-time assessment. Nexus Intelligent Systems, Inc. makes no warranties regarding the completeness or accuracy of this document beyond the date of preparation.

9. Certification

Prepared By: Michael Chen, Chief Technology Officer

Date of Preparation: September 30, 2023

Authorized Signature: [Digital Signature]

Confidentiality Notice: This document contains proprietary and confidential information.

Unauthorized reproduction or distribution is strictly prohibited.