

Server and Hardware Deployment Specifications

Confidential Legal Document

Nexus Intelligent Systems, Inc.

1. PRELIMINARY DEFINITIONS

1 "Company" shall mean Nexus Intelligent Systems, Inc., a Delaware corporation with principal offices located at 1200 Technology Park Drive, Austin, Texas 78758.

2 "Hardware Assets" shall collectively refer to all server infrastructure, network equipment, computational resources, and associated technological components owned or leased by the Company for enterprise operations.

3 "Deployment Specifications" shall mean the comprehensive technical and legal parameters governing the acquisition, configuration, maintenance, and potential disposition of computational infrastructure.

2. HARDWARE INVENTORY OVERVIEW

1 Current Infrastructure Composition

- Total Server Inventory: 42 enterprise-grade servers
- Primary Manufacturers: Dell PowerEdge, Supermicro
- Aggregate Computational Capacity:
 - 672 CPU cores
 - 4.8 TB aggregate RAM
 - 672 TB total storage capacity

2 Infrastructure Classification

- (a) Production Environment Servers: 22 units
- (b) Development/Staging Servers: 12 units
- (c) Backup and Disaster Recovery Servers: 8 units

3. TECHNICAL SPECIFICATIONS

1 Server Configuration Standards

- Minimum Configuration Requirements:

- Intel Xeon Gold processors (minimum)
- 128 GB RAM per server
- Dual power supply configuration
- RAID 10 storage configuration
- 10 Gbps network interface capability

2 Virtualization Parameters

- Hypervisor Platform: VMware vSphere Enterprise Plus
- Virtualization Density: Maximum 12 virtual machines per physical server
- Live Migration Capability: Fully supported across infrastructure

4. DEPLOYMENT PROTOCOLS

1 Acquisition Methodology

- Procurement shall follow strict competitive bidding protocols
- Minimum three vendor quotes required for purchases exceeding \$50,000
- Preference for manufacturers with enterprise-grade support contracts

2 Configuration Management

- All hardware must be configured according to NIST SP 800-53 security recommendations
- Mandatory implementation of:
 - Secure boot protocols
 - Encrypted management interfaces
 - Comprehensive access logging
 - Multi-factor authentication for administrative access

5. MAINTENANCE AND LIFECYCLE MANAGEMENT

1 Replacement Cycle

- Standard server replacement interval: 36-48 months
- Critical infrastructure components: Annual comprehensive assessment
- Mandatory decommissioning protocol for end-of-life hardware

2 Maintenance Requirements

- 24x7x365 enterprise support contract

- Minimum 4-hour hardware replacement guarantee
- Comprehensive firmware and security patch management

6. COMPLIANCE AND SECURITY PROVISIONS

1 Data Protection

- All hardware must comply with:
- GDPR data protection standards
- CCPA privacy requirements
- SOC 2 Type II security frameworks

2 Disposal Protocols

- Certified data destruction required for all decommissioned hardware
- Mandatory third-party verification of data elimination
- Comprehensive chain-of-custody documentation

7. LEGAL DISCLAIMERS

1 This document represents a comprehensive specification as of January 22, 2024. All specifications are subject to modification with appropriate corporate governance approvals.

2 No third-party reliance is permitted without explicit written consent from Nexus Intelligent Systems, Inc.

8. EXECUTION

Authorized Signature:

Name: Dr. Elena Rodriguez

Title: Chief Executive Officer

Date: January 22, 2024