Network Infrastructure Upgrade Plan 2025

TechFlow Solutions, Inc.

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Executive Summary

The 2025 Network Infrastructure Upgrade Plan addresses critical scalability, security, and performance requirements to support TechFlow Solutions' projected 60% growth in employees and 150% increase in customer data processing. This comprehensive upgrade includes data center modernization, network security enhancement, cloud infrastructure expansion, and disaster recovery improvements with a total investment of \$2.8M.

Key Upgrade Objectives: - Scalability: Support 300+ employees and 500% data volume growth - Security: Implement zero-trust architecture and advanced threat protection - Performance: Achieve <100ms latency globally and 99.99% uptime - Compliance: Meet SOC 2 Type II, GDPR, and ISO 27001 requirements - Cost Optimization: Reduce operational costs by 25% through automation

Investment Summary: - Total Budget: \$2.8M over 12 months - Expected ROI: 340% over 3 years - Operational Savings: \$890K annually starting 2026 - Risk Mitigation: \$2.1M in prevented downtime and security incidents

Current Infrastructure Assessment

Existing Network Architecture

Primary Data Center (Virginia): - Servers: 45 physical servers, 280 virtual machines - Storage: 850TB total capacity, 67% utilization - Network: 10Gbps internet, 40Gbps internal backbone - Power: 80kW capacity, N+1 redundancy - Cooling: Precision air conditioning, 75°F target

Secondary Data Center (Oregon): - Servers: 20 physical servers, 120 virtual machines - Storage: 340TB total capacity, 52% utilization - Network: 5Gbps internet, 20Gbps internal backbone - Disaster Recovery: 4-hour RTO, 1-hour RPO targets

Cloud Infrastructure (AWS): - Compute: 180 EC2 instances across 3 regions - Storage: 2.4PB S3 storage, 450TB EBS volumes - Database: RDS

clusters, ElastiCache, DocumentDB - **CDN:** CloudFront with 28 edge locations globally

Performance Baseline Metrics

Current Performance: - Application Response Time: 1.2 seconds average (target: <1 second) - Database Query Performance: 450ms average (target: <200ms) - File Transfer Speed: 125MB/s (target: 250MB/s) - System Uptime: 99.87% (target: 99.99%) - Network Latency: 45ms domestic, 180ms international

Capacity Utilization: - CPU Utilization: 72% average across infrastructure - Memory Usage: 68% average utilization - Storage Utilization: 64% across all systems - Network Bandwidth: 58% peak utilization - Backup Storage: 340TB with 30-day retention

Current Challenges and Limitations

Scalability Constraints: - Database performance degradation under peak loads - Network bandwidth saturation during data processing - Storage capacity limits affecting backup retention - Limited geographic redundancy for global customers

Security Vulnerabilities: - Legacy firewall rules with limited granular control - Incomplete network segmentation between environments - Limited intrusion detection and response capabilities - Outdated encryption standards for data in transit

Operational Inefficiencies: - Manual provisioning processes taking 2-4 hours - Limited automation for routine maintenance tasks - Reactive monitoring with insufficient predictive analytics - Complex disaster recovery procedures requiring 6+ hours

2025 Infrastructure Requirements

Growth Projections and Capacity Planning

Employee Growth Impact: - Current Staff: 151 employees - Projected Staff: 240 employees (+60% growth) - Remote Workers: 70% of workforce - Office Locations: 3 current, 5 planned (including international)

Customer and Data Growth: - Customer Base: 151 current, 380 projected (+150% growth) - Data Processing: 50TB/month current, 250TB/month projected - API Requests: 2M/day current, 12M/day projected - Concurrent Users: 5,000 current, 25,000 projected

Application Performance Requirements: - Response Time: <500 ms for 95% of requests - Database Performance: <100 ms query response time -

File Upload/Download: 500MB/s minimum throughput - Global Latency: <100ms to major markets - System Availability: 99.99% uptime SLA

Compliance and Security Requirements

Regulatory Compliance: - SOC 2 Type II: Complete audit by Q3 2025 - ISO 27001: Certification by Q4 2025 - GDPR Compliance: Enhanced data protection and privacy - CCPA Compliance: California consumer privacy requirements - HIPAA Readiness: For healthcare customer expansion

Security Enhancement Requirements: - Zero-Trust Architecture: Implement comprehensive zero-trust model - Advanced Threat Protection: AI-powered threat detection and response - Data Encryption: End-to-end encryption for all data - Access Controls: Multi-factor authentication and privileged access management - Security Monitoring: 24/7 SOC with advanced SIEM capabilities

Technology Modernization Goals

Infrastructure Modernization: - Hybrid Cloud Strategy: Optimize workload placement across on-premise and cloud - Container Orchestration: Kubernetes deployment for scalable applications - Microservices Architecture: Break monolithic applications into microservices - Infrastructure as Code: Automated provisioning and configuration management - Edge Computing: Deploy edge nodes for improved global performance

Automation and Orchestration: - CI/CD Pipeline Enhancement: Automated testing and deployment - Infrastructure Automation: Self-healing systems and auto-scaling - Security Automation: Automated threat response and remediation - Monitoring and Alerting: Predictive analytics and intelligent alerting - Backup and Recovery: Automated backup testing and recovery procedures

Detailed Upgrade Plan by Quarter

Q1 2025: Foundation and Security (January - March)

Phase 1.1: Security Infrastructure Overhaul

Network Security Enhancements: - Next-Generation Firewalls: Deploy Palo Alto Networks PA-5220 appliances - Network Segmentation: Implement micro-segmentation with Cisco DNA Center - Intrusion Detection: Deploy Darktrace AI-powered threat detection - VPN Modernization: Upgrade to Zscaler Private Access for secure remote access - DNS Security: Implement Infoblox DNS security and DDoS protection

Identity and Access Management: - Zero-Trust Implementation: Deploy Okta Universal Directory and SSO - Privileged Access Management: Implement CyberArk for privileged accounts - Multi-Factor Authentication: Enforce MFA for all systems and applications - Identity Governance: Deploy SailPoint for access review and compliance - Certificate Management: Implement automated certificate lifecycle management

Budget for Q1: \$750K Timeline: 12 weeks Risk Level: Medium (security-critical implementations)

Phase 1.2: Data Center Modernization

Primary Data Center Upgrades: - Server Refresh: Deploy 25 new HPE ProLiant DL380 Gen11 servers - Storage Upgrade: Install Pure Storage FlashArray//X70 (1.2PB capacity) - Network Backbone: Upgrade to 100Gbps Cisco Nexus switching infrastructure - Power and Cooling: Install modular UPS and efficient cooling systems - Environmental Monitoring: Deploy comprehensive monitoring and alerting

Virtualization Platform Enhancement: - VMware vSphere 8: Upgrade to latest version with enhanced security - Distributed Resource Scheduler: Implement advanced workload balancing - vSAN Modernization: Upgrade storage fabric for improved performance - Backup Integration: Implement Veeam Backup & Replication v12 - Disaster Recovery: Enhance VMware Site Recovery Manager

Budget for Q1: \$580K Timeline: 10 weeks Risk Level: High (critical infrastructure changes)

Q2 2025: Cloud and Connectivity (April - June)

Phase 2.1: Hybrid Cloud Expansion

AWS Infrastructure Scaling: - Multi-Region Deployment: Expand to 5 AWS regions globally - EKS Cluster Deployment: Kubernetes infrastructure for microservices - Database Modernization: Migrate to Aurora Serverless v2 for auto-scaling - Data Lake Implementation: S3-based data lake with Athena analytics - CDN Optimization: CloudFront performance and security enhancements

Azure Integration: - Multi-Cloud Strategy: Implement Azure for backup and DR scenarios - Azure Active Directory: Integration with on-premise identity systems - Azure Sentinel: Security information and event management - Azure Monitor: Comprehensive monitoring and alerting platform - ExpressRoute: Dedicated connectivity to Azure for hybrid workloads

Budget for Q2: \$420K Timeline: 12 weeks Risk Level: Medium (complex cloud integrations)

Phase 2.2: Network Performance Optimization

Internet Connectivity Upgrades: - Primary Circuit: Upgrade to 50Gbps dedicated internet access - Secondary Circuit: Add 25Gbps backup circuit with different provider - BGP Implementation: Multi-homed BGP for optimal routing and redundancy - Traffic Shaping: Implement intelligent traffic prioritization - Peering Agreements: Establish direct peering with major cloud providers

WAN and Site Connectivity: - SD-WAN Deployment: Implement Silver Peak Unity EdgeConnect - Site-to-Site VPN: Upgrade all remote office connections - Wireless Infrastructure: Deploy WiFi 6E access points at all locations - Network Monitoring: Implement SolarWinds for comprehensive monitoring - Quality of Service: Advanced QoS policies for critical applications

Budget for Q2: \$310K Timeline: 8 weeks Risk Level: Low (network optimization with minimal disruption)

Q3 2025: Automation and Intelligence (July - September)

Phase 3.1: Infrastructure Automation

Infrastructure as Code: - Terraform Enterprise: Standardized infrastructure provisioning - Ansible Automation: Configuration management and deployment automation - GitOps Workflow: Git-based infrastructure change management - Policy as Code: Automated compliance and security policy enforcement - Self-Service Portal: Employee self-service for common IT requests

Container Orchestration: - Kubernetes Platform: Production-ready EKS and on-premise clusters - Service Mesh: Istio implementation for microservices communication - Container Registry: Secure container image storage and scanning - CI/CD Pipeline: Jenkins and GitLab integration for automated deployments - Observability: Prometheus, Grafana, and Jaeger for monitoring

Budget for Q3: \$380K Timeline: 12 weeks Risk Level: Medium (significant architectural changes)

Phase 3.2: AI and Analytics Integration

Monitoring and Analytics: - AI-Powered Monitoring: Implement Datadog with machine learning insights - Log Analytics: Splunk deployment for centralized log analysis - Performance Analytics: Application performance monitoring with New Relic - Capacity Planning: Predictive analytics for resource planning - Anomaly Detection: AI-based detection of infrastructure anomalies

Security Intelligence: - **SIEM Implementation:** Deploy IBM QRadar for security event correlation - **Threat Intelligence:** Integration with threat intelligence feeds - **User Behavior Analytics:** Detect insider threats and compro-

mised accounts - **Incident Response:** Automated security incident response workflows - **Vulnerability Management:** Automated scanning and remediation tracking

Budget for Q3: \$290K Timeline: 10 weeks Risk Level: Low (monitoring and analytics enhancements)

Q4 2025: Optimization and Future-Proofing (October - December)

Phase 4.1: Performance Optimization

Database Performance: - Database Clustering: Implement high-availability clusters - Read Replicas: Deploy geographic read replicas for improved performance - Caching Strategy: Redis cluster implementation for application caching - Query Optimization: Database performance tuning and index optimization - Data Archiving: Automated data lifecycle management and archiving

Application Acceleration: - Load Balancing: F5 Big-IP deployment for intelligent load distribution - Content Optimization: Image and content optimization for faster delivery - API Gateway: Kong Enterprise for API management and security - Edge Computing: Deploy edge nodes in key geographic regions - Performance Testing: Automated load testing and performance validation

Budget for Q4: \$240K Timeline: 10 weeks Risk Level: Low (performance optimization with minimal risk)

Phase 4.2: Disaster Recovery and Business Continuity

Enhanced Disaster Recovery: - Hot Site Implementation: Active-active data center configuration - Automated Failover: Zero-downtime failover capabilities - Data Replication: Real-time data replication across all sites - Recovery Testing: Automated DR testing and validation procedures - Documentation: Comprehensive DR procedures and runbooks

Business Continuity Planning: - Risk Assessment: Comprehensive business impact analysis - Communication Plans: Emergency communication and notification systems - Vendor Management: Supplier diversity and backup vendor relationships - Employee Continuity: Remote work capabilities and backup systems - Compliance Validation: Regular compliance audits and certifications

Budget for Q4: \$220K Timeline: 8 weeks Risk Level: Low (improving existing capabilities)

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Technology Stack and Vendor Analysis

Core Infrastructure Technologies

Compute Infrastructure: - Physical Servers: HPE ProLiant DL380 Gen11 (standardization) - Virtualization: VMware vSphere 8.0 Enterprise Plus - Container Platform: Kubernetes (EKS and on-premise) - Operating Systems: RHEL 9, Ubuntu 22.04 LTS, Windows Server 2022 - Hyperconverged: Nutanix for edge locations and branch offices

Storage Solutions: - Primary Storage: Pure Storage FlashArray//X70 (all-flash) - Secondary Storage: Dell EMC PowerScale for file storage - Cloud Storage: AWS S3, Azure Blob Storage for backup and archive - Backup Solution: Veeam Backup & Replication v12 - Data Protection: Immutable backups and air-gapped recovery

Network Infrastructure: - Core Switching: Cisco Nexus 9000 series - Edge Switching: Cisco Catalyst 9300 series - Wireless: Cisco WiFi 6E access points - Firewalls: Palo Alto Networks PA-5220 series - Load Balancers: F5 Big-IP i4800 series

Cloud and SaaS Services

Public Cloud Platforms: - Primary: Amazon Web Services (70% of cloud workloads) - Secondary: Microsoft Azure (25% of cloud workloads) - Tertiary: Google Cloud Platform (5% specialized workloads) - Edge: AWS Wavelength and Azure Edge Zones - Backup: Multi-cloud backup and disaster recovery

Software as a Service: - Identity Management: Okta Universal Directory - Security: Zscaler, Darktrace, CrowdStrike - Monitoring: Datadog, New Relic, Splunk - Collaboration: Microsoft 365, Slack, Zoom - Development: GitHub Enterprise, Atlassian suite

Vendor Relationship Strategy

Tier 1 Strategic Partners: - AWS: Enterprise agreement with dedicated TAM - Microsoft: Gold Partner status with Azure credits - Cisco: Select Partner with technical support - VMware: Premier Partner with priority support - Palo Alto: Platinum Partner with advanced threat intelligence

Procurement and Contract Management: - Volume Discounts: Leverage enterprise agreements for cost savings - Standardization: Reduce vendor diversity for operational efficiency - Support Levels: Ensure 24/7 support for critical infrastructure - Renewal Management: Proactive contract renewal and optimization - Backup Vendors: Maintain secondary vendor relationships

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Security Architecture and Compliance

Zero-Trust Security Model

Identity-Based Security: - Identity Verification: Multi-factor authentication for all access - Device Trust: Device compliance and health verification - Least Privilege: Minimal access rights with just-in-time elevation - Continuous Monitoring: Real-time user and device behavior analytics - Session Management: Dynamic session trust evaluation

Network Security Controls: - Micro-Segmentation: Application-level network segmentation - Encrypted Communication: TLS 1.3 for all internal and external communication - Traffic Inspection: Deep packet inspection and SSL/TLS decryption - Threat Prevention: Real-time malware and intrusion prevention - DNS Protection: Secure DNS resolution with threat intelligence

Data Protection: - Encryption at Rest: AES-256 encryption for all stored data - Encryption in Transit: TLS 1.3 for all data transmission - Key Management: Hardware security modules for key storage - Data Loss Prevention: Automated DLP policies and monitoring - Data Classification: Automated data discovery and classification

Compliance Framework Implementation

SOC 2 Type II Preparation: - Control Documentation: Comprehensive control descriptions and procedures - Evidence Collection: Automated evidence gathering and reporting - Audit Preparation: Quarterly internal audits and remediation - Third-Party Assessment: Engage qualified audit firm for certification - Continuous Monitoring: Ongoing compliance monitoring and reporting

ISO 27001 Certification: - Information Security Management System: ISMS implementation - Risk Assessment: Comprehensive risk identification and treatment - Policy Development: Security policies aligned with ISO standards - Training Program: Employee security awareness and training - Internal Audits: Regular ISMS effectiveness reviews

GDPR and Privacy Compliance: - Data Mapping: Comprehensive personal data inventory - Privacy by Design: Built-in privacy controls in all systems - Consent Management: Automated consent collection and tracking - Data Subject Rights: Self-service portal for privacy requests - Breach Response: Automated incident detection and notification

Security Operations Center (SOC)

24/7 Security Monitoring: - SIEM Platform: IBM QRadar for security event correlation - Threat Detection: AI-powered anomaly detection and threat hunting - Incident Response: Automated response workflows and playbooks - Threat Intelligence: Integration with global threat intelligence feeds

- Forensics Capability: Digital forensics tools and procedures

Security Team Structure: - SOC Analysts: 6 FTE providing 24/7 coverage - Threat Hunters: 2 dedicated threat hunting specialists - Incident Responders: 3 incident response team members - Security Engineers: 4 engineers for tool implementation and tuning - Compliance Specialists: 2 dedicated compliance and audit support

Cost Analysis and ROI Projections

Total Investment Breakdown

2025 Capital Expenditures: \$2.8M

Q1 Investment: \$1.33M (47% of total) - Security Infrastructure: \$750K - Data Center Modernization: \$580K

Q2 Investment: \$730K (26% of total) - Cloud Infrastructure: \$420K - Network Upgrades: \$310K

Q3 Investment: \$670 K (24% of total) - Automation Platform: \$380 K - AI and Analytics: \$290 K

Q4 Investment: \$460 K (16% of total) - Performance Optimization: \$240 K - Disaster Recovery: \$220 K

Additional Operating Expenses: \$340K - Professional services and consulting: \$180K - Training and certification: \$95K - Project management and coordination: \$65K

Operational Cost Impact

Annual Operating Cost Changes:

Cost Reductions (Starting 2026): - Infrastructure Consolidation: -\$340K annually - Automation Savings: -\$280K annually (reduced manual effort) - Cloud Optimization: -\$150K annually (right-sizing and reserved instances) - Energy Efficiency: -\$120K annually (modern equipment) - Total Annual Savings: \$890K

Cost Increases: - Enhanced Security Services: +\$180 K annually - Monitoring and Analytics: +\$95 K annually - Compliance and Audit: +\$60 K annually - Additional Cloud Services: +\$140 K annually - Total Annual Increases: +\$475 K

Net Annual Savings: \$415K (starting 2026)

Return on Investment Analysis

Three-Year ROI Calculation:

Total Investment: \$2.8M Cumulative Savings (2026-2028): \$1.245M annually × 3 years = \$3.735M Avoided Costs: \$2.1M (prevented downtime, security incidents, compliance fines) Productivity Gains: \$1.8M (improved system performance and automation)

Total Benefits: \$7.635M Net ROI: \$4.835M over 3 years ROI Percentage: 173% over 3 years (58% annually)

Payback Period: 2.1 years

Risk Mitigation Value

Prevented Downtime Costs: - Historical Downtime: 98 hours annually (99.87% uptime) - Projected Downtime: 8.8 hours annually (99.99% uptime) - Avoided Downtime: 89.2 hours annually - Revenue Impact: \$12,400 per hour \times 89.2 hours = \$1.1M annually

Security Incident Prevention: - Probability Reduction: 75% reduction in successful security incidents - Average Incident Cost: \$2.8M (industry average for data breaches) - Expected Incidents: 0.15 annually (reduced from 0.6) - Prevented Costs: \$1.26M annually in avoided security incidents

Compliance and Regulatory Benefits: - Avoided Fines: \$500K potential regulatory fines - Competitive Advantage: 15% faster sales cycles for compliant prospects - Customer Retention: 8% improvement in enterprise customer retention - Market Expansion: Access to healthcare and financial services markets

Implementation Timeline and Milestones

Critical Path Analysis

Project Dependencies: 1. **Security Infrastructure** \rightarrow All subsequent phases 2. **Data Center Modernization** \rightarrow Cloud integration and automation 3. **Network Upgrades** \rightarrow Performance optimization 4. **Identity Management** \rightarrow Zero-trust implementation 5. **Monitoring Platform** \rightarrow AI and analytics capabilities

Resource Allocation: - Project Manager: Full-time dedicated PM - Network Engineers: 3 FTE for duration of project - Security Engineers: 2 FTE for security implementations - Cloud Engineers: 2 FTE for cloud migrations and optimization - Systems Engineers: 4 FTE for infrastructure implementations

Key Milestones and Checkpoints

Q1 Milestones: - Week 4: Security infrastructure design approval - Week 8: Next-generation firewall deployment complete - Week 12: Data center modern-

ization phase 1 complete - Week 13: Q1 security assessment and compliance review

Q2 Milestones: - Week 18: Multi-cloud strategy implementation complete - Week 22: Network performance optimization complete - Week 26: Hybrid cloud connectivity fully operational - Week 26: Mid-year infrastructure performance review

Q3 Milestones: - Week 32: Infrastructure automation platform operational - Week 36: Container orchestration platform ready for production - Week 40: AI-powered monitoring and analytics operational - Week 39: Q3 compliance audit and security review

Q4 Milestones: - Week 44: Performance optimization phase complete - Week 48: Disaster recovery testing and validation complete - Week 52: Full infrastructure upgrade project completion - Week 52: Annual security and compliance certification

Risk Management and Contingency Planning

High-Risk Activities: - **Data Center Migration:** Detailed cutover planning with rollback procedures - **Security Implementation:** Phased deployment with extensive testing - **Network Upgrades:** Maintenance windows and redundancy validation - **Application Migration:** Comprehensive testing and performance validation

Contingency Plans: - Budget Overruns: 15% contingency fund (\$420K) for unexpected costs - Timeline Delays: Flexible resource allocation and vendor escalation - Technical Issues: 24/7 vendor support and emergency response procedures - Staff Augmentation: Pre-approved contractor resources for peak periods

Success Metrics and Monitoring

Key Performance Indicators

Performance Metrics: - Application Response Time: <500ms (target: 99th percentile) - Database Query Performance: <100ms average response time - Network Latency: <100ms to major global markets - System Availability: 99.99% uptime SLA achievement - Throughput: 500MB/s file transfer performance

Security Metrics: - Mean Time to Detection (MTTD): <5 minutes for security incidents - Mean Time to Response (MTTR): <15 minutes for critical security events - Vulnerability Remediation: 95% of critical vulnerabilities patched within 24 hours - Security Training: 100% employee security awareness training completion - Compliance Scores: >95% for all compliance frameworks

Operational Metrics: - Automation Rate: 85% of routine tasks automated - Provisioning Time: <30 minutes for standard server deployment - Change Success Rate: >98% of changes implemented without issues - Backup Success Rate: 100% backup completion rate - Recovery Time Objective: <1 hour for critical systems

Monitoring and Reporting Framework

Real-Time Dashboards: - Executive Dashboard: High-level KPIs and health indicators - Operations Dashboard: Detailed system performance and alerts - Security Dashboard: Security posture and threat intelligence - Compliance Dashboard: Compliance status and audit readiness - Capacity Dashboard: Resource utilization and capacity planning

Reporting Schedule: - Daily: Automated operational reports and alert summaries - Weekly: Performance trends and capacity utilization reports - Monthly: Security posture and compliance status reports - Quarterly: Strategic infrastructure review and ROI analysis - Annually: Comprehensive infrastructure assessment and planning

Conclusion and Next Steps

Strategic Value Proposition

The 2025 Network Infrastructure Upgrade Plan represents a transformational investment in TechFlow Solutions' technology foundation. This comprehensive modernization will position the company for sustainable growth, enhanced security, and operational excellence while delivering measurable business value through improved performance, reduced costs, and risk mitigation.

Key Success Factors: - Executive Sponsorship: Strong leadership support and resource commitment - Phased Implementation: Systematic approach minimizing business disruption - Vendor Partnerships: Strategic relationships ensuring successful delivery - Team Development: Skill development and training for new technologies - Continuous Improvement: Ongoing optimization and enhancement

Immediate Next Steps

Pre-Implementation (December 2024): 1. Budget Approval: Secure executive and board approval for \$2.8M investment 2. Vendor Selection: Finalize vendor agreements and contract negotiations 3. Project Team: Assemble dedicated project team and assign responsibilities 4. Risk Assessment: Complete detailed risk analysis and mitigation planning 5. Communication Plan: Develop stakeholder communication and change management

Implementation Kickoff (January 2025): 1. Project Charter: Finalize project charter and success criteria 2. Detailed Planning: Complete detailed implementation plans and schedules 3. Resource Allocation: Confirm internal and external resource availability 4. Quality Assurance: Establish testing and validation procedures 5. Monitoring Setup: Implement project tracking and reporting mechanisms

The successful implementation of this infrastructure upgrade plan will establish TechFlow Solutions as a technology leader with world-class infrastructure capabilities, positioning the company for continued growth and market leadership in the competitive SaaS analytics market.

Network Infrastructure Upgrade Plan compiled by: Michael Chang, Chief Technology Officer

Technical specifications by: Alex Thompson, Senior Network Engineer Security architecture by: Sarah Davis, Information Security Manager

Executive review by: David Park, Chief Executive Officer

Classification: Confidential - IT and Executive Team Use Only