



Warehouse WMS Blockchain Integration Checklist

Planning & Strategy

Initial assessment and strategic alignment of blockchain implementation.

Project Goals & Objectives

Write something...

Estimated ROI (%)

Enter a number...

Blockchain Platform Selection

- ☐ Ethereum
- ☐ Hyperledger Fabric
- ☐ Corda
- ☐ Other

Project Start Date

Enter date...

Key Stakeholders & Roles

Write something...

Use Cases for Blockchain Integration

- ☐ Inventory Tracking
- ☐ Supply Chain Visibility
- ☐ Order Fulfillment
- ☐ Provenance Tracking
- ☐ Payment Processing

Project Manager Name

Write something...

Data Mapping & Integration

Defining data flows and integrating blockchain with existing WMS data structures.

Description of Data Fields to be Mapped

Write something...

Data Source for Product Information

- ☐ Existing ERP System
- ☐ External Supplier Data Feed
- ☐ Manual Entry

Data Transformation Decimal Precision

Enter a number...

Data Encryption Method

- ☐ AES-256
- ☐ RSA
- ☐ None

Date of Last Data Mapping Validation

Enter date...

Data Fields to be Included in Blockchain

- ☐ Product ID
- ☐ Batch Number
- ☐ Location
- ☐ Timestamp
- ☐ Quantity

Data Field Mapping Table (Example)

Write something...

Smart Contract Development & Testing

Creating and thoroughly testing smart contracts for key warehouse processes.

Smart Contract Purpose Description

Write something...

Contract Version Number


Enter a number...

Smart Contract Language

☐ Solidity

☐ Other

Contract Source Code

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Test Case Summary

Write something...

Number of Failed Tests

Enter a number...

Date of Last Test Execution

Enter date...

Test Environment

- ☐ Testnet
- ☐ Mainnet

Security & Permissions

Establishing secure access controls and permissioning for blockchain interactions.

Blockchain Network Access Control

- ☐ Role-Based Access
- ☐ Attribute-Based Access
- ☐ Combination of Both

Authorized User Roles for Blockchain Interaction

- ☐ Warehouse Manager
- ☐ Inventory Control Specialist
- ☐ Shipping Clerk
- ☐ System Administrator

Maximum Transaction Rate per User

Enter a number...

Key Management System

- ☐ Hardware Security Module (HSM)
- ☐ Software-Based Key Management
- ☐ Cloud-Based Key Management

Detailed Description of Access Control Policies

Write something...

Data Encryption Method

- ☐ AES-256
- ☐ RSA
- ☐ Elliptic Curve Cryptography (ECC)

Network Configuration & Connectivity

Setting up and validating the blockchain network and connection to the WMS.

Blockchain Network Node Count

Enter a number...

Blockchain Node IP Addresses

Write something...

Consensus Mechanism

- ☐ Proof of Work
- ☐ Proof of Stake
- ☐ Delegated Proof of Stake
- ☐ Other

Network Latency (ms)

Enter a number...

Blockchain Protocol

- ☐ Hyperledger Fabric
- ☐ Ethereum
- ☐ Corda
- ☐ Other

Block Size Limit (MB)

Enter a number...

Network Configuration Details

Write something...

Traceability & Audit Trails

Verifying the accuracy and integrity of data traceability and audit trails.

Transaction ID of First Block

Enter a number...

Description of Data Stored in First Block

Write something...

Date of Initial Block Creation

Enter date...

Time of Initial Block Creation

Enter time...

Verification Method Used (e.g., Hash Comparison)

- ☐ Hash Comparison
- ☐ Digital Signature Verification

Hash Value of Key Data Field (Verification)

Enter a number...

Notes on Verification Process

Write something...

Signature of Verifying Personnel

Regulatory Compliance

Ensuring adherence to relevant regulations and legal requirements.

Applicable Regulations (e.g., GDPR, CCPA)

- ☐ GDPR
- ☐ CCPA
- ☐ HIPAA
- ☐ Other (Specify)

Summary of Relevant Regulatory Requirements

Write something...


Data Retention Period (in years)

Enter a number...

Last Compliance Review Date

Enter date...

Compliance Documentation (e.g., Audit Reports)

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Data Residency Requirements Met?

- ☐ Yes
- ☐ No
- ☐ N/A

Explanation of Any 'No' Answers

Write something...

User Training & Documentation

Developing training materials and comprehensive documentation for users.

Training Manual Review

Write something...

Modules Covered in Training

- ☐ Receiving
- ☐ Putaway
- ☐ Picking
- ☐ Packing
- ☐ Shipping
- ☐ Inventory Management

Training Completion Date

Enter date...

Training Format

- ☐ Online
- ☐ In-Person
- ☐ Hybrid

Trainee Signature

Number of Trainees

Feedback on Training Effectiveness (Brief)

Post-Implementation Monitoring

Continuous monitoring of blockchain performance and data integrity.

Average Transaction Confirmation Time (seconds)

Blockchain Network Throughput (transactions/hour)

Error Rate (%)

Enter a number...

Last Data Integrity Check Date

Enter date...

Time of Last Smart Contract Audit

Enter time...

Summary of Recent Anomaly Reports

Write something...

Overall Performance Assessment

- ☐ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

Screenshot of Blockchain Dashboard

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Disaster Recovery & Business Continuity

Planning for disaster recovery and ensuring business continuity.

Last DR Test Date

Enter date...

RTO (Recovery Time Objective) (Hours)

Enter a number...

RPO (Recovery Point Objective) (Hours)

Enter a number...

Detailed DR Procedures Description

Write something...

Critical Systems Backed Up?

- ☐ WMS Core System
- ☐ Database
- ☐ Network Infrastructure
- ☐ Integration APIs

Backup Location Type

- ☐ On-Site
- ☐ Off-Site
- ☐ Cloud-Based

DR Plan Document

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Next DR Test Scheduled

Enter date...