

**American Association for Elder Care (AAEC)
White Paper Series**

White Paper: Elder Care Supply Chain Management

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Issued: October 2025

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1. Executive Summary

This white paper outlines the AAEC's strategic framework for achieving transparency, safety, and quality control within the global elder-care supply chain. It highlights the importance of traceability, certification, and technological integration across medical devices, assistive products, and care service materials serving aging populations worldwide.

2. Introduction

The aging population presents growing challenges for health and elder-care systems. As products and services for older adults become increasingly globalized, ensuring the integrity, safety, and reliability of their supply chains has become a critical priority. AAEC advocates for a unified framework that integrates compliance, risk management, and digital traceability to enhance consumer protection and cross-border accountability.

3. AAEC Supply Chain Framework

The AAEC Supply Chain Framework provides a holistic approach that connects product registration, vendor accreditation, digital certification, and ongoing post-market monitoring. It ensures that every participant—from manufacturer to distributor and caregiver—is verifiably compliant with age-friendly standards and ethical sourcing practices.

Key components include:

- Product source traceability and labeling requirements
- AI-driven monitoring of safety and performance data
- Compliance alignment with FDA, CE, and ISO 13485 frameworks
- Supplier and subcontractor verification under AAEC registry

4. Verification & Certification System

AAEC's verification system involves multi-stage certification processes covering both products and service providers. Manufacturers and suppliers must provide technical documentation, test reports, and proof of regulatory conformity. Certified products are entered into the AAEC registry and are periodically re-evaluated.

Core processes include:

1. Product Registration
2. Supplier Accreditation
3. Batch Traceability
4. Incident and Recall Reporting
5. Periodic Re-Certification

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5. Digital Infrastructure

AAEC leverages blockchain and AI technologies to enhance transparency across the elder-care ecosystem. Each certified product is assigned a unique digital certificate containing verification data, inspection history, and chain-of-custody records accessible through secure APIs.

The infrastructure supports interoperability between national regulators, import authorities, and care institutions, enabling real-time validation and audit readiness.

6. Governance & Compliance

AAEC's governance model ensures alignment with international standards and national regulations. Its oversight structure includes ethics committees, compliance audits, and enforcement mechanisms to prevent fraud, misrepresentation, or unauthorized mark usage.

Compliance linkage includes:

- FDA and CMS Guidelines (United States)
- ISO/IEC Standards (International)
- State-Level Product Safety Regulations
- Cross-border certification equivalence protocols

7. Case Scenarios

Case 1: Traceability of assistive mobility equipment across multi-state distribution channels.

Case 2: Overseas manufacturing certification for age-friendly daily living aids under AAEC supervision.

Case 3: Integration of blockchain-based monitoring for temperature-sensitive medical supplies.

8. Conclusion & Outlook

AAEC's Supply Chain Management framework lays the foundation for a resilient, transparent, and technology-enabled ecosystem for elder-care products and services. By promoting international collaboration and harmonized compliance, AAEC aims to ensure that all age-friendly products reaching seniors are safe, reliable, and ethically sourced.