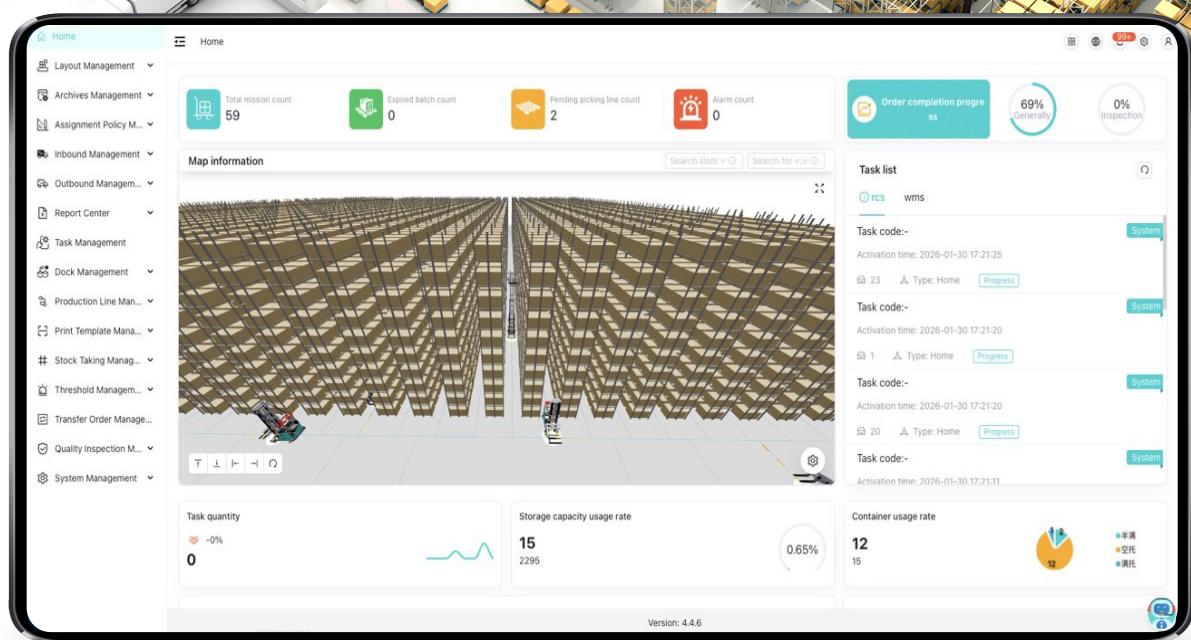
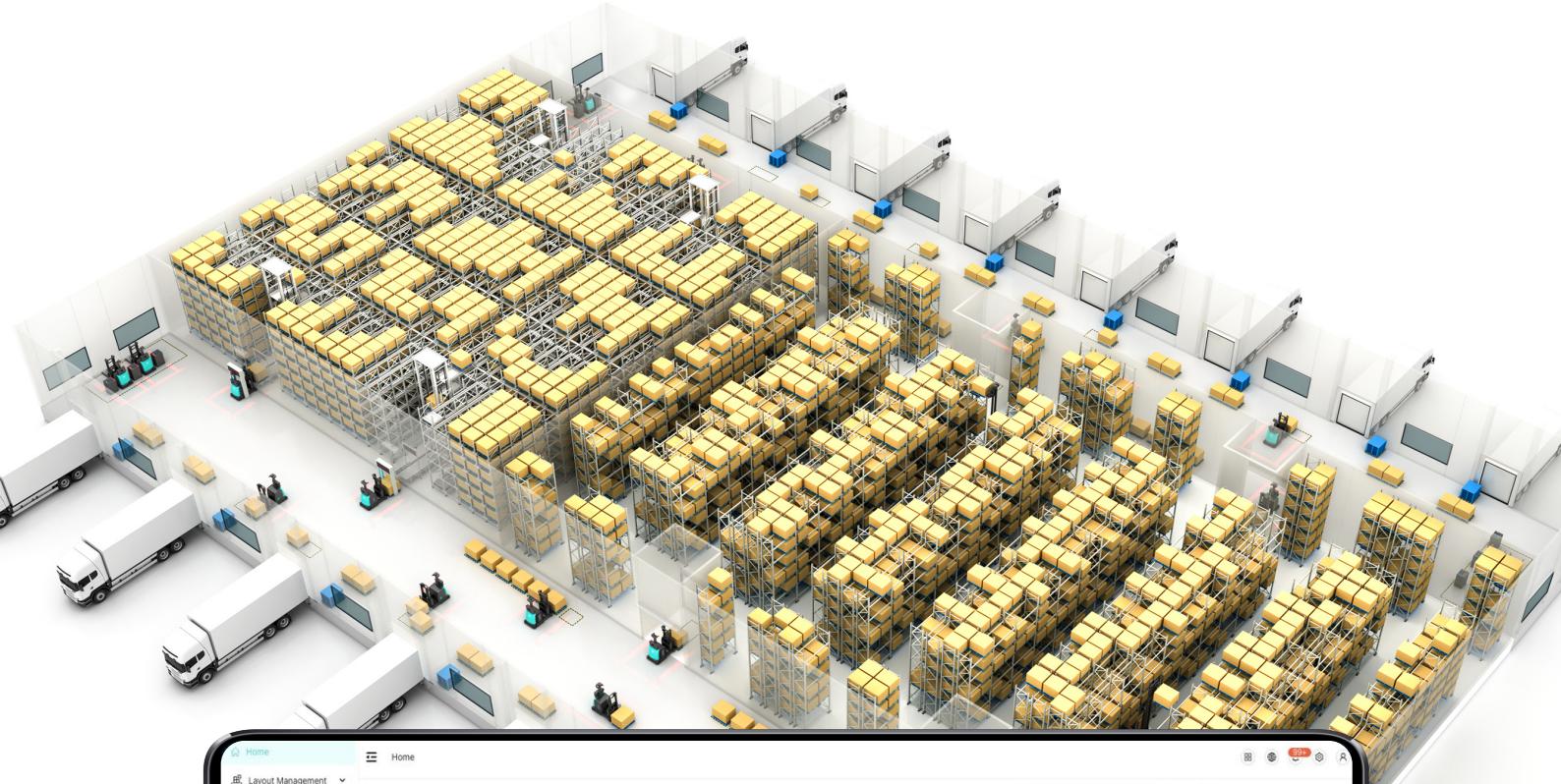


## Multiway

# Warehouse Management System-WMS





# System Introduction

**System Overview:** Multiway Intelligent Warehouse Management System (MW WMS) is a digital core platform purpose-built for modern smart warehouses. By deeply integrating with automated equipment such as autonomous forklifts, the system enables end-to-end digital management and intelligent scheduling of warehouse inventory, inbound/outbound operations, and storage locations. It supports diverse warehouse layouts and racking configurations, driving warehouse operations toward full visibility, intelligent decision-making, and unmanned execution.

## Seamless Unmanned Coordination for Precision Execution



Fully integrated with autonomous forklifts, MW WMS automates the entire workflow—from task dispatch and path planning to goods handling. Intelligent algorithms assign optimal storage locations based on material characteristics, and autonomous forklifts execute tasks with high accuracy, eliminating human errors and significantly improving operational precision and efficiency.

## End-to-End Digital Twin for Transparent Visibility



Coupled with a 3D visualized warehouse interface, the system provides real-time mirroring of warehouse dynamics—inventory status, vehicle positions, and task progress are all instantly visible. This breaks the “black box” of traditional warehousing, enabling fully transparent asset and process management.

## Real-Time Inventory Synchronization for Perfect Ledger-Physical Alignment



Leveraging IoT and seamless system integration, MW WMS automatically captures material data, supporting batch tracking and category-based control. It syncs seamlessly with internal enterprise systems (e.g., ERP), ensuring real-time consistency between physical inventory and accounting records—eliminating manual discrepancies.

## Intelligent Resource Allocation for Dual Optimization of Space & Efficiency



Flexible inbound/outbound strategies and intelligent traffic flow planning maximize warehouse space utilization. The system centrally coordinates autonomous forklifts, storage slots, and orders to ensure smooth operations and enhance overall throughput.

## Multi-Terminal Digital Control for Anytime, Anywhere Management

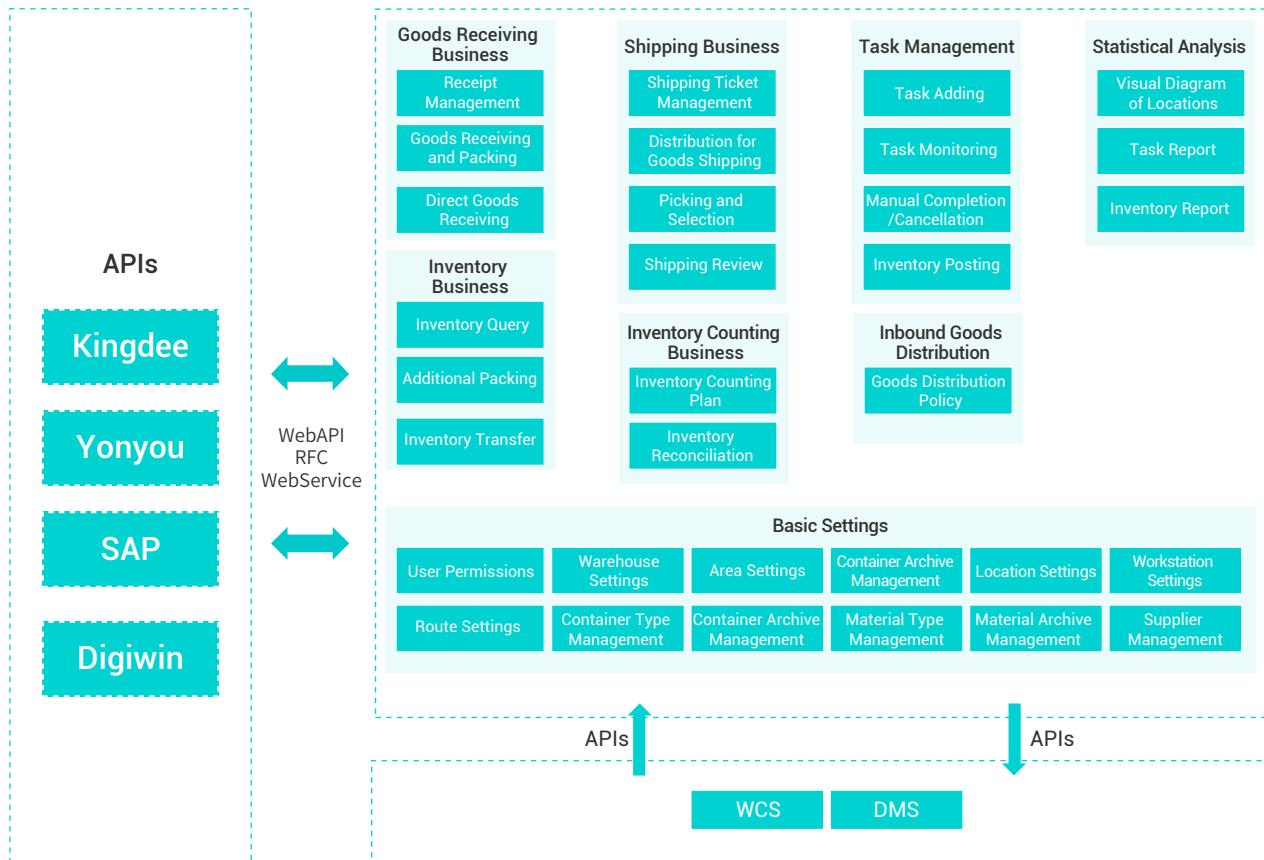


Supports PC, tablet, and PDA access, enabling managers to monitor warehouse activities, issue commands, and adjust strategies in real time—delivering mobile, agile, and digital warehouse management.

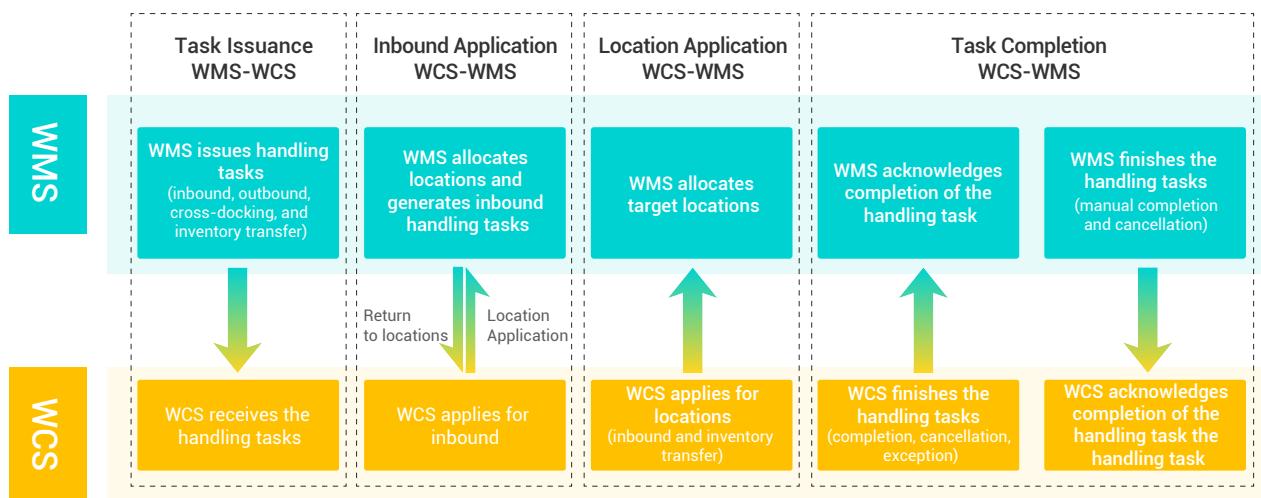
## System Functions

<b>Visualization Display</b>	<b>System Management</b>	<b>Layout Management</b>	<b>Master Data Management</b>
2D intuitive view	User management	Warehouse management	Container management
3D digital twin	Role management	Zone management	Container type management
	Permission management	Slot management	Customer management
		Path management	Supplier management
		Slot group management	Multi-unit management
		User zone management	Material management
			Material type management
<b>Task Management</b>			
Task monitoring			
Task template			
<b>Strategy Management</b>	<b>Mode Configuration</b>	<b>Barcode Management</b>	<b>Procurement Management</b>
Slot allocation strategy	Order-based / order-free mode	Print template configuration	Purchase order
Inventory allocation strategy	Barcode management mode	Export template configuration	Delivery note
	Quality inspection mode		Subcontracting order
	Batch mode		
	Dynamic slot search strategy		
<b>Production Management</b>	<b>Sales Management</b>	<b>Reporting Management</b>	<b>Other Business</b>
Production order	Shipping order	Batch inventory report	Stock transfer
Material requisition	Return order	Inventory aging report	Inventory count
Additional material request		Inventory traceability report	Alert management
Material return		Cycle count report	
Finished goods receipt			

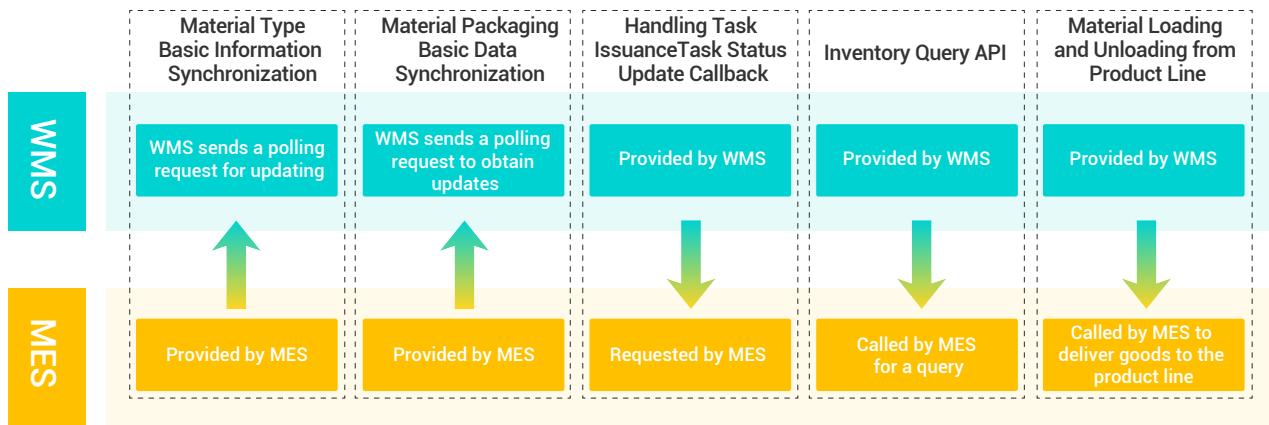
# Overall Function Architecture



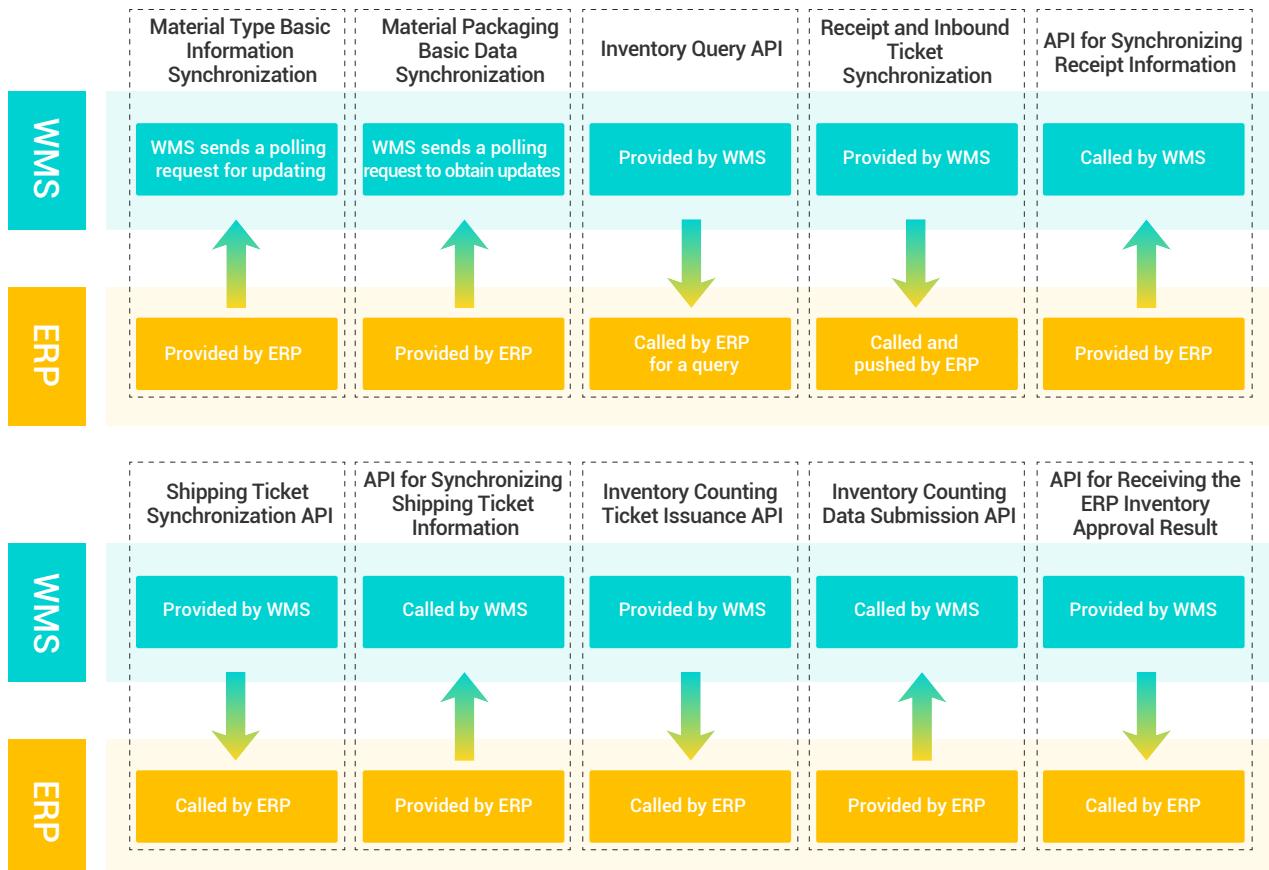
## Integration Between WCS and WMS (Web APIs)



## Integration Between MES and WMS (Web APIs)



## Integration Between ERP and WMS (Web APIs)



# Multiway Robotics

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Multiway Robotics, a leading intelligent intralogistics solution provider, is dedicated to improve intralogistics efficiency, ensure work safety and reduce labor operational cost.

**Global Presence:** The headquarters is located in Shenzhen, China, with production facilities in Zhejiang Wuzhen. Multiway has also established subsidiaries in the United States, Germany, Japan, South Korea, and more, extending business, operations, and services to 40+ countries and regions worldwide.

**Our Expertise:** Focusing on advanced robotics and AI technology, Multiway Robotics is committed to delivering cutting-edge Smart Intralogistics Solution to our customers. Multiway offers a comprehensive, integrated innovation delivery platform and solutions, ranging from core sensors and algorithms to self-developed unmanned forklifts and upper-level control systems. Hardware products include a full range of unmanned forklifts and four-way shuttle, while software systems encompass WMS, RCS, WCS, on-site management systems, and various visual solutions.

**Software:** WMS, RCS, WCS, Multiway Horizons, Simulation

**Hardware:** AGV forklifts, AGV Tugger, AMR & Four-way Shuttle

After successfully delivering numerous benchmark projects in industries such as factories, warehousing, and logistics, Multiway has become a trusted and ongoing collaborative partner for many industry-leading customers.



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