

Warehouse Execution System Market Size, Share & Trends Analysis Report By Component (Software, Services), By Deployment (On-Premises, Cloud), By End-use, By Region, And Segment Forecasts, 2025 - 2030

<https://marketpublishers.com/r/WB0EF236C8BCEN.html>

Date: October 2024

Pages: 80

Price: US\$ 4,950.00 (Single User License)

ID: WB0EF236C8BCEN

Abstracts

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Warehouse Execution System Market Growth & Trends

The global warehouse execution system market size is expected to reach USD 4.28 billion by 2030, registering a CAGR of 18.0% from 2025 to 2030, according to a new report by Grand View Research, Inc. The E-commerce market is growing at a rapid pace, increasing the number of operations in Distribution Centers (DCs). Increasing order volume and speed is facilitating the adoption of advanced software solutions in warehouses, which is escalating the demand for Warehouse Execution Systems (WES) in the market.

Warehouse execution system software offers several functionalities that include labor management and planning and inventory management. Companies that implement WES in their warehouses/distribution centers majorly utilize these two functions of WES. Moreover, the software also encompasses real-time analytics and reporting functions enabling users to visualize operational and labor data in real-time.

WES can be a perfect single solution for several warehouses; however, it may not be suitable for warehouses with larger and complex operations. In such cases, the replacement of the existing WMS solutions may not be a feasible option. Therefore, WES can be integrated within the existing WMS. The ability of WES solutions to be

implemented with WMS or WCS software makes it a practical solution for large warehouses or DCs. Moreover, as companies are increasingly adopting various automation technologies to suffice the increasing operational activities, advanced software solutions such as WES are also gaining traction in the market.

Further, due to the stringent government regulations, it is becoming crucial that manufacturers and distributors focus on not supplying damaged products to the end-users. Damaged or contaminated products may result in product recall scenarios, thereby degrading the brand value. Such instances are reduced by the implementation of a warehouse execution system as it encompasses the traceability feature, which indicates the presence of damaged products in the inventory.

The increased burden on the warehouses due to the outbreak of the COVID-19 pandemic has motivated distributors and logistics providers to adopt various automation technologies. The advanced features of the WES software and the combined benefits of WMS and WCS offered by the software are resulting in the increased adoption of WES among the various industries, including healthcare, automotive, food & beverage, among others.

Warehouse Execution System Market Report Highlights

Based on components, the software segment dominated the global warehouse execution system market with revenue share of 65.9% in 2024. The segment is also anticipated to remain dominant over the forecast period.

Cloud deployment dominated the global market for warehouse execution systems in 2024. Companies increasingly prefer cloud deployments for multiple factors, such as scalability, cost-effectiveness, flexibility, enhanced monitoring abilities, remote access, advanced capacities, and more.

Based on end use, the third party logistics (3PL) sector dominated the global market in 2024. Third-party service providers handle a large volume of products, which necessitate the adoption of automation technologies.

Europe warehouse execution system market dominated the global industry with revenue share of 32.7% in 2024.

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