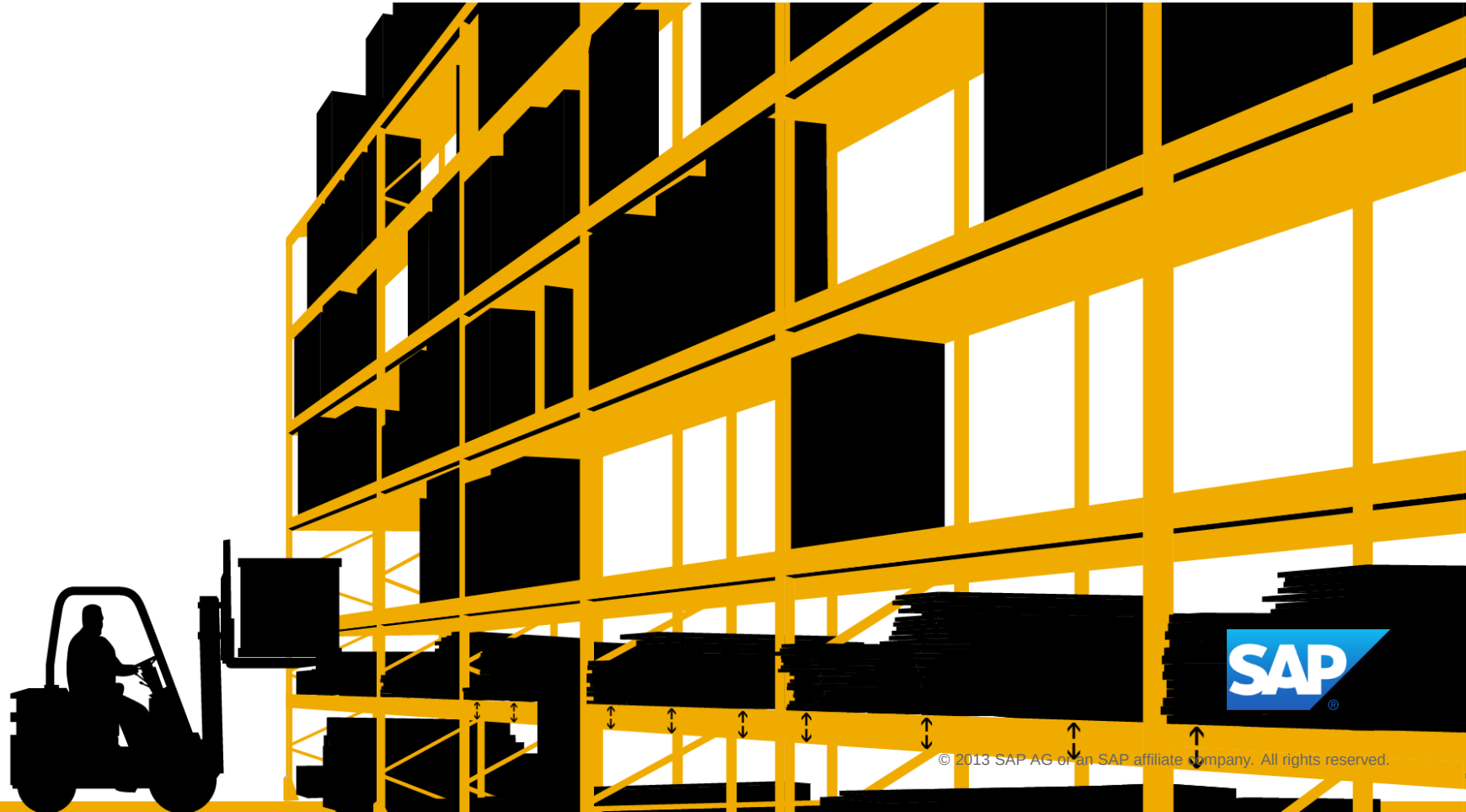
Warehouse Management



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Operational Excellence in Warehousing

The Best-Run Warehouse

Warehouse Logistics

Coordinating Operations

SAP Innovations

Logistics managers face the challenge of sharpening their competitive edge while optimizing operations and improving warehouse efficiency. Extended warehouse management tools with world-class features help meet these demands.

98%

On-time delivery performance reported by top quartile companies

Source: SAP Performance Benchmarking

Warehouse operations require not only transparent and accurate inventory, but also effective management of all the resources, including the efficient use of space, personnel, and equipment.

To be successful, warehouse and logistics managers need to optimize and automate traditional warehouse and distribution operations, including inbound processes, outbound processes, storage, and inventory management and distribution.

They also need help in managing resources and assets, and in managing on-demand and planned cross-docking. Workforce management needs include task interleaving for each individual worker, as well as the management of warehouse space and equipment.

By automating processes for full control of warehouse operations, companies can improve asset utilization, increase throughput, and ensure on-time and accurate order fulfillment.

Warehousing operations work best within the context of an optimized supply chain, providing state-of-the-art operations not only within the four walls, but also in concert with the end-to-end process.

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Warehousing for Best-Run Logistics

The Best-Run Warehouse

Warehouse Logistics

Coordinating Operations

SAP Innovations

Warehouse operations can be a source of customer satisfaction.

The SAP Extended Warehouse Management (SAP EWM) application uses advanced optimization techniques to help you create ideal work packages to match with appropriate resources.

State-of-the-art analytical tools enable efficient management of operations. The application supports the integration of multiple technologies – including voice and data capture – as well as groundbreaking control of automated material-handling equipment from a single system. Use of a single platform to model automated warehouse processes eliminates costly middleware.

This SAP application is capable of managing the high-volume requirements of the largest distribution centers, while also providing flexibility for extension without modification. SAP EWM is a complete tool to turn a logistics operation into a high-performance asset.

Best-Run Wholesale Distribution

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Coordinating Warehouse Operations

The Best-Run Warehouse

Warehouse Logistics

Coordinating Operations

SAP Innovations

Warehousing operations do not take place in a vacuum. Key coordination throughout the business process cycle is essential in meeting ever-increasing customer expectations for the efficient use of assets. SAP EWM has native integration to support business processes using components of SAP Business Suite software, while simultaneously providing a single user experience for warehouse operations.

- Enable measurement of “perfect order” fulfillment – complete, accurate, on time orders in original condition
- Increase customer satisfaction
- Reduce order cycle times
- Increase orders shipped on time

6%

Higher number of orders shipped on time where warehouse process is optimized based on ship times

Source: SAP Performance Benchmarking

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SAP Innovations

The Best-Run Warehouse

Warehouse Logistics

Coordinating Operations

SAP Innovations

SAP EWM includes flexible deployment options, fast and accurate integration through a common technology platform, and consistent data models – features not possible when patching together disparate systems.

The deployment options in SAP EWM provide maximum performance and availability requirements. The latest analytical tools are embedded in the application to provide users with quick insights into what is happening in the warehouse.

Flexible graphics and cockpits allow for the display of real-time information on the shop floor, providing analytics to all warehouse employees. In addition, work and information is available on a wide variety of mobile devices for operations that are moving quickly and fulfilling the highest volumes.

This data is also available for analysis, which allows for continuous improvements in operations. Finally, flexible delivery methods allow for “cloud to on premise” deployment to get the operation up and running fast.

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Customer Satisfaction and Efficiency

Solution Overview

Warehouse Management

Planning and Execution

Why SAP?

Designed to run all storage and fulfillment processes, SAP EWM is integrated software that enables fully automated warehouse and distribution operations, including inbound processing and receipt confirmation, cross-docking, outbound processing, and warehouse, storage, and physical inventory management. It supports workforce management, slotting, and advanced inventory optimization, as well as connectivity to warehouse automation equipment for full control of warehouse operations. SAP EWM helps companies improve asset utilization, increase throughput, and help ensure precise order fulfillment.

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A Closer Look at Warehouse Management

Solution Overview

Warehouse Management

Planning and Execution

Why SAP?

Transportation Management	Warehouse Management	Track and Trace
Transportation Requirements Management	Warehouse Management (SAP EWM)	Fulfillment Visibility
Sales Forecast Collaboration		Demand Review
Freight Tendering		Goods and Assets in Transit
Carrier Booking		Item Serialization and Product Traceability
Freight Order Forwarding and Settlement		Product Genealogy

The SAP Extended Warehouse Management application is part of an overall plan for your supply chain.

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Warehouse Management

Solution Overview

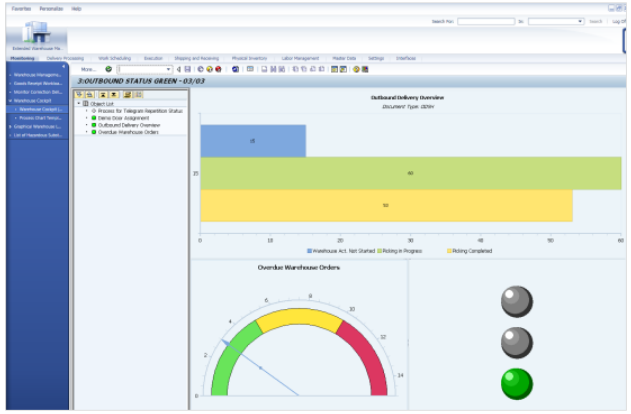
Warehouse Management

Capabilities

Benefits

SAP Innovations

Improve warehouse efficiency, optimize operations, and sharpen the company's competitive edge – with end-to-end, automated processes and tighter controls.



14%

Lower outbound shipments expedited for shipments dynamically replanned during order changes, based on real-time integration to sales order system

Source: SAP Performance Benchmarking

SAP EWM provides a best-in-class solution by combining the functionality of a complete, comprehensive solution with business process and technical integration to support all enterprise processes using standard connectivity.

SAP EWM offers industry-specific and cross-industry functionality – ready to meet the most demanding warehousing customers – enhanced with state-of-the art analytics and technologies, providing direct control of warehouse automation, as well as the execution of business processes on mobile and voice activated devices.

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Orchestrate from Inbound to Outbound

Solution Overview

Warehouse Management

Capabilities

Benefits

SAP Innovations

SAP EWM helps optimize the entire warehousing and distribution process. As early as preadvice from suppliers, the solution makes information available and does automatic planning.

SAP EWM supports visibility from check-in to scheduling dock doors. It includes optimized storage combined with quality inspection tools, dangerous goods handling, value-added services, slotting, and various cross-docking methods.

Wave management and advanced order bundling and “cartonization” provide an optimal picking and outbound process, including options for packaging, value-added services, staging, and loading – complete to departure from yard or trailer parking. Internal processes, such as replenishment of pick areas and physical inventory, are supported – with numerous and flexible options.

Finally, extensive reporting, alerting, and management tools, as well as a comprehensive labor management component, make all processes transparent.

46%

More shipments delivered per load planner where summary-level graphic reports can be aggregated into role-based portals for business users

Source: SAP Performance Benchmarking

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Optimization, Visibility, Control, and Management Tools

Solution Overview

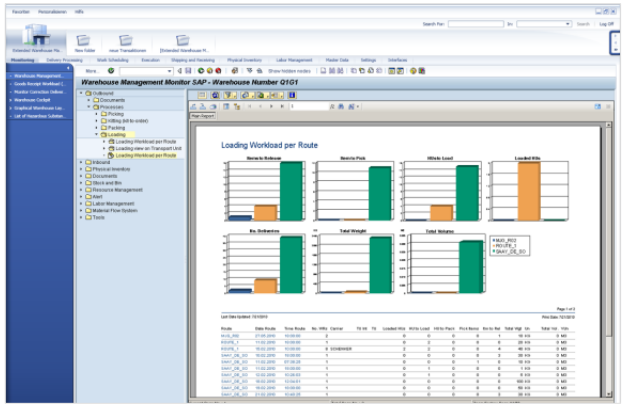
Warehouse Management

Capabilities

Benefits

SAP Innovations

Model all warehousing processes in a single system, automate optimization processes, and provide visibility and alerting for the complete warehousing process with extended warehouse management.



48%

Lower customer order cycle time where picking, packing, and shipping are automated

Source: SAP Performance Benchmarking

SAP EWM brings the physical process of warehousing and distribution into a software system in real-time. This provides the benefit of incorporating best practices and company-specific logistics rules into immediately optimized instructions for warehouse personnel.

Furthermore, as part of an integrated business suite, SAP EWM can provide information to help companies make decisions to optimize processes with information not traditionally accessible in a stand-alone warehousing system. This includes global trade, track and trace, transportation, and dangerous goods information. Point solutions cannot provide such diverse capabilities.

Additionally, SAP EWM shares the same master data and data structures with other solutions – creating “one version of the truth” for logistics and other key areas of the enterprise and the extended enterprise.

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Innovations for Warehouse Management

Solution Overview

Warehouse Management

Capabilities

Benefits

SAP Innovations

SAP extends proven technology to logistics processes and provides cutting-edge innovation to create even more opportunities.

With the SAP EWM, a company's technology landscape is simpler. Using the same underlying technology used in the SAP ERP application, maintenance, authorization, and technical landscapes are vastly simplified.

Tight integration with SAP Business Suite applications means that end users have a unified experience and need significantly less internal support, while the deployment options give optimum flexibility for upgrade and high availability.

With cutting-edge technology, such as the SAP HANA platform, SAP EWM can provide real-time predictive and analytics functions in warehousing.

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Supply Chain Planning and Execution

Solution Overview

Warehouse Management

Planning and Execution

Why SAP?

Demand Management	Demand Management
Transportation Management	Transportation Management
Warehouse Management	Warehouse Management
Supply Chain Analytics	Supply Chain GPS

SAP solutions enable supply chain planning and execution.

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Why SAP?

Solution Overview

Warehouse Management

Planning and Execution

Why SAP?

SAP helps companies achieve superior customer satisfaction levels by delivering the “perfect order” – complete, accurate, and on time – reducing overall logistics costs and improving efficiency, readiness, and agility.

Predictably execute supply chain plans while embedding flexibility and agility to support changes and take advantage of opportunities, like these:

- Benefit from a global logistics and fulfillment solution that orchestrates processes spanning from planning and storage to order fulfillment and distribution.
- Meet regulatory compliance with best-of-breed functionalities tightly integrated with financial, international trade, and environmental, health, and safety processes.
- Reduce logistics costs by using SAP best-in-class logistics and fulfillment functionalities integrated with the supporting financial processes.
- Gain logistics efficiency, readiness, and agility by operating, orchestrating, monitoring, and improving logistics processes continuously across an extended supply network.

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