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Succeeding Together



SAP Extended Warehouse Management

(SAP EWM)



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SAP EWM is a comprehensive warehouse management solution that maximises visibility, control and optimisation of supply chain activities. By seamlessly integrating complex supply chain logistics with high-volume warehouse and distribution processes, organisations can reduce inventory and labour costs while increasing overall efficiency.



Leading-Edge Technology Integration

Including Programmable Logic Controllers (PLCs), Augmented Reality (AR), Pick-by-Voice and Radio Frequency Identification (RFID).

Automate & Orchestrate Warehouse Processes

Utilise full warehouse and material flow systems modelling, for everything from inbound to outbound processing and all storage & retrieval operations in between.

Streamline Warehouse Operations

With transparent & accurate inventory, adaptive resource management and flexible, scalable system & process configuration.

Flexible Deployment Options

Deploy on-premises or in the SAP HANA private cloud, as a stand-alone module or as part of the wider Supply Chain Execution (SCE) Platform, with integration for third-party applications. storage & retrieval operations in between.





SAP EWM provides flexible, automated support for warehouse and distribution logistics, as well as inventory tracking and management.



With SAP EWM you can:

- ✓ Maximise visibility and control in high-volume warehouses
- ✓ Support a full range of warehouse processes
- ✓ Optimise warehouse resource and asset utilisation
- ✓ Manage item movement within warehouses, from goods receipt to issue
- ✓ Run on SAP HANA to handle throughput of up to one million items per day
- ✓ Leverage sophisticated features that can scale as you grow





SAP EWM enables management of high-volume warehouse operations with improved visibility and control, by integrating complex supply chain logistics with your warehouse and distribution processes. Increase warehouse efficiency by optimising inventory tracking, cross-docking and distribution operations.

Streamlining Warehouse Operations

- Comprehensive analytics for strategic reporting and operational optimisation
- Flexible, scalable systems and process configuration
- Optimise labour planning, resource allocation and equipment assets utilisation

Utilise the Power of S/4HANA

- Converge transactions and analytics in-memory on a single source of data
- Integrate structured and unstructured data, including from emerging technologies
- Model follow-up activities using what-if scenarios based on real-time data

Orchestrating Goods Movement & Storage

- Inbound and outbound processing, plus all storage and retrieval operations in between
- Organise and monitor goods movement triggered by procurement, shipping and compliance processes
- Specific functionality for large and complex operations, such as multilevel kitting and advanced yard logistics

Integrating Mobile Devices

- SAP Fiori UI provides an enhanced user experience
- Complete assigned inbound and outbound processing tasks from smartphones
- Integrate wearable devices such as headsets, smart-glasses and pick-by-voice

Automating the Warehouse

- Model warehouses and material flows systems (via PLCs) via graphical warehouse layouts
- Control the movement of handling units, including activate/deactivate/group conveyors
- Functionality for EAN, task interleaving and system-guided work

Smart Business Cockpit

- View up-to-the-moment role-based KPIs to support monitoring and decision making
- Easily access information on workloads and task execution performance
- View incoming and outgoing delivery schedules at a glance





Technical Information

SAP Extended Warehouse Management makes it easier for IT to integrate, extend, and deploy an extended warehouse management solution that delivers a consistent and reliable user experience.

- **Object-based and object-oriented programming** - Get IT up and running quickly with the application's familiar object-based and ABAP-type programming.
- **Single client per instance** - Handle warehouses replicated within and managed by other ERP systems.
- **Integration approach** - Communicate with components in SAP SCM, SAP ERP, or 3rd-party systems via SAP Remote function calls, SAP ALE technology, and Web services.
- **Data model** - The SAP EWM architecture follows the classical separation of data access, presentation and actual functional layers.
- **"Radio frequency framework" for mobile UIs** - Standardise mobile implementation techniques, support custom enhancements and connect transactions to back-end systems.
- **Business add-in** - Add specific logic via open interfaces using 16 product development standards, simple rules based on master data and flexible condition techniques.
- **Application layer** - Bundle available business objects and combine them with existing components not located within individual business objects.



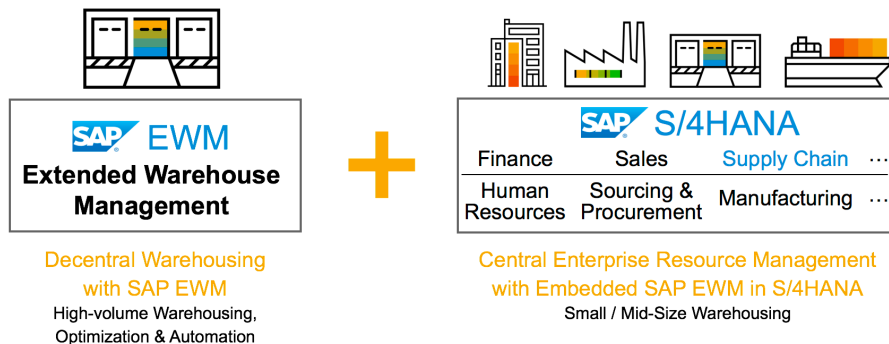


Deploying SAP EWM with the Power of S/4HANA

SAP EWM can be run traditionally using core ERP systems, or with SAP S/4HANA –decentral or embedded.

You can integrate SAP EWM with SAP ERP and the SAP S/4HANA Enterprise Management solution using asynchronous data transfer, by means of queued remote function calls. Alternatively, you can embed warehouse management functionality directly into SAP S/4HANA.

SAP EWM Deployment



- **Inbound processes:** Support yard management, put-away and stock removal strategies, expected goods receipt, cross-docking, value-added services and quality management.
- **Outbound processes:** Perform wave and replenishment processing.
- **Storage-bin management:** Manage handling units, perform goods slotting and process physical inventory.
- **Distribution centre processes:** Support radio frequencies, serial numbers, resource management, labour management and material flow systems.
- **Supported warehouse types:**
 - Distribution centre
 - Production warehouse
 - Transit warehouse





Why Work with Invenio?

Invenio Business Solutions is an award-winning UK based SAP Gold Partner with a global footprint. Since 2006, we have been developing solutions for global companies to leverage their SAP investment to their full advantage, with solutions that drive value and outstanding results. We have created strategic relationships with some of the world's leading organisations, from Universal Music Group and News UK to the governments of Saudi Arabia and the Maldives.

The Invenio Values

Customer Focus



Our customers are our focus. Your ambitions matter to us because we can help you get there. You come first in everything we do.

Care



We're one team, and we take care of each other. Because when we do, not only does Invenio grow but so does every employee.

Expertise



Because we're specialists, we hit the ground running. We understand your industry, and your technology, so we're effective from day one.

Enterprising



We encourage a culture of ideas and initiative to deliver fresher, smarter work. We find solutions where others can't, and we go the extra mile.

“Invenio are a reliable partner with an outstanding level of common sense and dedication.”

Jens Kessler, Chief Information Officer at Universal Music Group

Find out how Invenio created a custom supply chain management solution for Universal Music Group in [this case study](#).



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