

SAP Modules	SAP Capability	Value Drivers	What's new in SAP S/4HANA
Extended Warehouse Management	Deliver the optimal order through extended warehouse management. Streamline location management and material handling operations with predefined business process integration.	<ul style="list-style-type: none"> ☑ Improve on-time delivery performance ☑ by automating and integrating warehouse and distribution processes ☑ Reduce days in inventory ☑ by providing real-time visibility into inventory positions ☑ Reduce revenue loss due to stock-outs ☑ by improving the accuracy and visibility of warehouse inventory and activities as well as of impacting supply and demand 	<ul style="list-style-type: none"> ☑ Enhanced picking, new rack, manage towing vehicles ☑ Picking confirmation on desktop as alternative to confirmation via RF (radio frequency). New RF transaction "NEXT" to create new rack with same attributes automatically, if a rack is full. Seamless parking and switching of towing vehicles in case of break, shift change or damage. ☑ Enhanced posting and analysis ☑ Synchronous stock postings between inventory management and SAP Extended Warehouse Management. The alternative-based confirmation analysis of products is based on confirmed warehouse tasks. ☑ New replenishment strategy using Kanban ☑ With the usage of Kanban in warehouse, the tasks to replenish a Kanban container are automatically created, when you set the Kanban container to empty.
Warehouse Management	Deliver the right products to the right place, on time, with integrated logistics execution processes. Automate operations to improve asset usage, increase throughput, and support on-time, accurate order fulfillment.	<ul style="list-style-type: none"> ☑ Improve on-time delivery performance ☑ by integrating pick, pack, and ship processes ☑ Reduce days in inventory ☑ by conducting real-time reports on inventory positions and flows, leading to insight to action ☑ Reduce total logistics cost ☑ by improving the efficiency of operations across warehousing and fulfillment processes 	<ul style="list-style-type: none"> ☑ Embedded analytics ☑ Process control and monitoring is simplified and enhanced with new embedded analytics functionality in SAP S/4HANA. ☑ Superior data model ☑ With an improved data model the past table locks can be avoided and processes are accelerated with SAP S/4HANA. ☑ Automation ☑ Automation of warehouse operations to improve asset usage has been increased with SAP S/4HANA. This increases throughput, and supports on-time, accurate order fulfillment.
Delivery Management	Deliver enhanced orders with integrated delivery management processes. Increase process transparency through stakeholder communication, for example, by sending and receiving advance shipping notifications.	<ul style="list-style-type: none"> ☑ Improve on-time delivery performance ☑ by integrating pick, pack and ship processes ☑ Reduce total logistics cost ☑ by improving the efficiency of logistics execution function using well-integrated picking, packing, and shipping processes ☑ Reduce order fulfillment lead time ☑ by using real-time information on timely completion of picking, packing, and shipping activities 	<ul style="list-style-type: none"> ☑ Enhancements for schedule delivery creation app ☑ Two enhancements are now available: new job template to schedule the creation of deliveries for return purchase orders and stock transport orders. In addition a new feature now lets you schedule recurring jobs with dynamic calculated date values. ☑ Superior data model ☑ The data model has been considerably improved and the superior data model includes improved handling and no more table locks. ☑ Embedded analytics ☑ Embedded analytics are available with SAP S/4HANA.
Goods Movement	Streamline inbound and outbound logistics processes. Integrate barcode and RFID technology to manage just-in-time availability, unit handling, serial numbers, electronic data exchange, and proof of delivery.	<ul style="list-style-type: none"> ☑ Improve on-time delivery performance ☑ by improving shipping performance, streamlining material flow and establishing transparency across the outbound logistics operations ☑ Improve supply chain FTE productivity ☑ by providing transaction access and information that matters in real time 	<ul style="list-style-type: none"> ☑ New business insights ☑ Operational excellence has been improved here with operational analytics, enhancements to work-in-process batch functionality for order combinations and the inclusion of batch selection into the goods receipt process. ☑ Predictive analytics and machine learning ☑ The predictive analytics and machine learning for decision support has been made available with SAP S/4HANA through the inclusion of the predicted delivery date into the creation of stock transport orders.
Advanced Transportation Management	Improve transportation efficiency by continuously refining transportation processes. Manage the transportation requirements by planning, optimizing, tendering, and settling freight; booking carriers.	<ul style="list-style-type: none"> ☑ Improve on-time delivery performance ☑ by giving planners real-time access to information, allowing them to react faster ☑ Reduce total logistics cost ☑ by improving efficiency in transportation processes with better process integration ☑ Reduce order fulfillment lead time ☑ by providing full visibility into projected inventories, integrated sales and purchasing, and shipment status updates 	<ul style="list-style-type: none"> ☑ Enhancements for planning in the transportation cockpit ☑ Significant enhancements for planning in the area of multi-window display or available lists in the transportation cockpit. Improved capacity & utilization transparency. ☑ Planning with new vehicle and location incompatibilities ☑ Automatic vehicle scheduling and routing optimizer, along with manual planning consideration of vehicle and location incompatibility constraints regarding loading from the left, right, back, or top and attached equipment. ☑ Advanced Shipping and Receiving (ASR) ☑ New approach to integrate Extended Warehouse Management and Transportation Management embedded in SAP S/4HANA allowing enhanced scalability and new scenarios like e.g. multi-warehouse.
Transportation Management	Streamline your company's transportation planning and execution for better process efficiency. Center transportation around sales orders, taking transportation constraints into consideration.	<ul style="list-style-type: none"> ☑ Improve on-time delivery performance ☑ by automating shipping processes ☑ Reduce total logistics cost ☑ by improving efficiency in transportation processes with better process integration ☑ Reduce order fulfillment lead time ☑ by providing full visibility into projected inventories, integrated sales and purchasing, and shipment execution tracking 	<ul style="list-style-type: none"> ☑ Integration of process substantially increased ☑ The integration of the whole process has been largely enhanced providing integration between the activities in the warehouse; including pick & pack and the shipping execution.
Available-to-Promise	Promise order commitments based on actual stock information to enhance customer satisfaction; according to business rules, taking into account material availability, and enforcing allocations.	<ul style="list-style-type: none"> ☑ Reduce days in inventory ☑ by leveraging information regarding inventory availability to shorten replenishment cycles ☑ Reduce days in inventory ☑ by leveraging information regarding inventory availability to shorten replenishment cycles ☑ Reduce order fulfillment lead time ☑ by using real-time information on inventory availability and projected availability during order fulfillment 	<ul style="list-style-type: none"> ☑ New algorithm ☑ An algorithm that calculates faster and more efficiently has been implemented. ☑ Extended functionality available ☑ This functionality is available with the new SAP S/4HANA solution for advanced available to promise.
Inventory Analytics and Control	Enable real-time reporting in inventory management with SAP S/4HANA. Better-informed inventory management decisions with real-time and historical data.	<ul style="list-style-type: none"> ☑ Improve on-time delivery performance ☑ by analyzing deviations in delivery plans and schedules and making timely adjustments ☑ Reduce days in inventory ☑ by analyzing real-time inventory coverage and ensuring inventory is aligned with demand ☑ Reduce revenue loss due to stock-outs ☑ by quickly adjusting stock positions based on real-time inventory and demand data 	<ul style="list-style-type: none"> ☑ Real-time inventory management ☑ An overview page presents selected and relevant key performance indicators and charts at a glance. ☑ Improved analysis of goods movements ☑ This includes the analysis of both the goods receipt blocked stock and stock in transit (as part of predictive analytics and machine learning). ☑ "slow or non-moving materials" and "dead stock analysis" ☑ Enhancements were made to the SAP Fiori app "slow or non-moving materials" enabling users to display a prediction for slow or non-moving materials with regard to the future development of a material. The new app for inventory analysis displaying obsolete stock is called the "dead stock analysis" app.
Batch Management	Handle a quantity or partial quantity of a certain product that has been produced according to the same specification	<ul style="list-style-type: none"> ☑ Improve product traceability ☑ by providing a unique identifier globally to assist during batch recall or government reporting ☑ Reduce inventory carrying cost ☑ by capturing of expiration and best by dates to reduce inventory obsolescence or perishability 	<ul style="list-style-type: none"> ☑ Classify batches ☑ Classify batches and reflect important specifications by assigning characteristics ☑ Use batch management in the logistic processes to improve quality and ensure optimal usage of batches. ☑ Achieve traceability ☑ Build a batch genealogy to automatically comply with legal requirements and track the batches throughout the inventory and the logistic processes. ☑ SAP Fiori user experience ☑ SAP Fiori app "Manage Batches" ☑ Roles with new, dedicated SAP Fiori apps.

Handling Unit Management	Reflect packing-based logistics structures and track the movements of entire handling units rather than each material individually	<ul style="list-style-type: none"> ☑ Reduce total logistics cost <ul style="list-style-type: none"> ☑ by streamlining material handling across inbound, outbound and transfer posting processes ☑ Improve product traceability ☑ by recording history of material movements from handling unit to an individual item contained within ☑ Improve supply chain FTE productivity ☑ by improving efficiency of stock handling through consolidation of individual items 	<ul style="list-style-type: none"> ☑ SAP Fiori-based user experience ☑ Manage packing instructions and monitor handling units with new, dedicated SAP Fiori apps. ☑ Data Innovations ☑ Option of global transport label standard in Handling Unit numbering
Serial Number Management	Identify and differentiate between individual items of a material or equipment	<ul style="list-style-type: none"> ☑ Improve product traceability <ul style="list-style-type: none"> ☑ by providing a unique identifier globally for the lifetime of the asset across the whole supply/support and service chain ☑ Reduce inventory carrying cost ☑ by providing an ability to track at individual SKU level thereby reducing inventory shrinkage 	<ul style="list-style-type: none"> ☑ Inventory Optimization <ul style="list-style-type: none"> ☑ Reduce inventory carrying cost by providing an ability to track at individual SKU level thereby reducing inventory shrinkage. ☑ Item Traceability ☑ Identify single items of equipment and materials to track in inventory management, physical inventory, and equipment.
Yard Logistics	Manage truck yards, container yards, rail yards, and logistics hubs. It also involves controlling yard- and hub-related movements, loading, and communication between all parties to improve throughput and productivity.	<ul style="list-style-type: none"> ☑ Improve on-time delivery performance <ul style="list-style-type: none"> ☑ by monitoring and controlling logistics hub activities to increase throughput and reduce idle times ☑ Reduce total logistics cost ☑ by monitoring and controlling trucks and shipments in real time ☑ Improve supply chain FTE productivity ☑ by supporting mobile scenarios and comprehensive planning capabilities 	<ul style="list-style-type: none"> ☑ Mobile App <ul style="list-style-type: none"> ☑ Fast creation of yard tasks in a mobile app that saves time compared to using the desktop application ☑ Immediate reaction to incidents even in inaccessible destinations ☑ Automatically release yard requests ☑ Enable the customer to set up the automatic release of a yard request based on planning of the last appointment ☑ Include a customizing setting for this scenario to support flexible configuration
Advanced Available-to-Promise	Commit to orders accurately to meet business rules in real time and enhance customer satisfaction. Order promising involves providing commitment dates to orders, reflecting material availability, and enforcing allocations.	<ul style="list-style-type: none"> ☑ Reduce days in inventory <ul style="list-style-type: none"> ☑ by leveraging real-time information regarding inventory availability to shorten replenishment cycles and responding to demand ☑ Reduce days in inventory <ul style="list-style-type: none"> ☑ by leveraging real-time information regarding inventory availability to shorten replenishment cycles and responding to demand ☑ Improve on-time delivery performance ☑ by replenishing inventories frequently based on the latest information about stock levels and demand forecasts 	<ul style="list-style-type: none"> ☑ Extended functionality for advanced available to promise (aATP) <ul style="list-style-type: none"> ☑ Extended functionality for advanced available to promise. This allows further vertical consumption strategies within product allocation sequences. In the backorder processing, we support re-evaluation of alternatives in backorder processing. ☑ Back-order processing and release for delivery ☑ Improved with an automation on fallbacks, visualization for constraints and multiple time zones. ☑ Alternative-based confirmation ☑ This is available to configure alternative control and substitution strategy, determine the delivering plant with best availability.
Extended Service Parts Planning	Inventory planning for service parts across the supply chain network based on parts volumes, velocity, and segments.	<ul style="list-style-type: none"> ☑ Reduce days in inventory <ul style="list-style-type: none"> ☑ by providing an optimized inventory plan for delivering superior customer service ☑ Reduce overall supply chain planning cost ☑ by collaborating with customers to extend demand visibility ☑ Reduce order fulfillment lead time ☑ by collaborating with suppliers to improve your visibility of service parts in the supply chain 	<ul style="list-style-type: none"> ☑ Multilevel safety stock optimization <ul style="list-style-type: none"> ☑ Reduce safety stock and benefit from a high service level while reducing inventory costs. Exchange planning relevant data with the SAP Integrated Business Planning application for inventory to optimize safety stock calculation on multiple levels ☑ Interchangeability of master data objects ☑ Increased flexibility through interchangeability of master data objects ☑ Analytics functionality ☑ Gain visibility of your supply chain and monitor your key figures with a high degree of flexibility
Physical Inventory	Record the physical quantities of your company's warehouse stocks for balance sheet purposes.	<ul style="list-style-type: none"> ☑ Improve supply chain FTE productivity <ul style="list-style-type: none"> ☑ by increasing automation and improving access to realtime information ☑ Reduce inventory carrying cost ☑ by allowing immediate availability of data and accelerating the decision-making process to reduce inventory shrinkage and obsolescence 	<ul style="list-style-type: none"> ☑ Manual creation of physical-inventory documents <ul style="list-style-type: none"> ☑ Use cycle counting for your physical inventory procedure, and create physical inventory documents referring to a cycle counting indicator to support counting materials at regular intervals during a fiscal year. ☑ Support of the situation handling framework in the physical inventory process ☑ Make sure the correct action is taken to resolve different situations as quickly as possible through situation handling to increase the overall accuracy of inventory monitoring and enable real-time reporting of a company's warehouse stock ☑ Schedule creation of physical inventory documents ☑ Create a job to create physical inventory documents for your physical inventory process
Transportation Execution Monitoring	Obtain transparency into transportation execution processes for users in roles such as transportation dispatcher, shipper, or ordering party	<ul style="list-style-type: none"> ☑ Improve on-time delivery performance <ul style="list-style-type: none"> ☑ by having real-time status monitoring and responding to deviations quickly ☑ Reduce total logistics cost ☑ by improving efficiency in transportation execution and monitoring processes with better process integration ☑ Improve supply chain FTE productivity ☑ by efficiently managing shipment execution and exception-based status monitoring 	<ul style="list-style-type: none"> ☑ Real-time process monitoring <ul style="list-style-type: none"> ☑ Single SAP S/4HANA platform ensures transparency into transportation execution processes ☑ Flexible process milestone modelling ☑ Proactively manage transportation processes with the help of flexibly defined milestones