



SAP Digital Supply Chain Management, Edition for SAP S/4HANA | PUBLIC

Accelerate Supply Chain Transformation and Innovation

Run an Agile, Resilient Supply Chain with SAP® Digital Supply Chain Management, Edition for SAP S/4HANA®



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Executive Overview

In today's uncertain economic climate, companies cannot wait years or even months to realize the **benefits of supply chain digitalization**. They require modular, interoperable solutions that can be implemented quickly to deliver responsiveness and resilience. These solutions must address the most critical needs of businesses by enabling the rapid deployment of essential supply-chain functionality in the cloud as a first step in the digital transformation journey.

This modular interoperability is a main tenet of the cloud solutions in the SAP® Digital Supply Chain portfolio. Companies embarking on supply chain digitalization can leverage SAP Digital Supply Chain Management, edition for SAP S/4HANA® to accelerate innovation and time to value. For existing SAP customers, this means taking advantage of new advanced capabilities in planning, manufacturing, and logistics in harmony

with their current ERP environment. For new SAP customers, this can be a first step in the modernization of their supply chain. In either case, SAP Digital Supply Chain Management, edition for SAP S/4HANA offers a flexible, achievable path toward the ultimate goal of digital supply chain transformation enabled by SAP's flagship ERP solution, SAP S/4HANA.



Today's supply chain has transitioned from a behind-the-scenes organizational function to a **front-and-center competitive differentiator** for an enterprise.

Transformation into an Intelligent Enterprise Is Key to Success

Major shifts in the global economy are creating business challenges for which there are no simple solutions. Customers, partners, employees, and regulators are increasingly more demanding. Meanwhile, businesses must continually innovate and operate efficiently today while becoming more sustainable in the future. Success requires transformation into an intelligent enterprise that supports continuous innovation and change across the organization. To achieve this, a company needs to maintain customer centricity, operational excellence, and a competitive edge. Without this combination, new ideas drown in cost overruns and the inability to scale.

SAP has built SAP S/4HANA, our next-generation ERP suite, to meet these needs and deliver the capabilities to support an intelligent enterprise. SAP S/4HANA is designed to digitalize end-to-end processes such as order to cash, procure to pay,

plan to produce, request to service, and more. It can help drive productivity, innovation, and customer focus by providing real-time insights across planning and execution as well as embedded analytics at each step. Companies can also benefit from enriched industry-focused line-of-business (LoB) capabilities with deep integration across comprehensive business processes.

SAP S/4HANA is the successor to the SAP ERP Central Component (SAP ECC) and covers a comprehensive range of business applications. These include finance, logistics, human resources, engineering, manufacturing, and customer service solutions, linked together into a single customizable system that runs on SAP HANA®. Today, thousands of organizations running SAP ECC are making the move to SAP S/4HANA to take advantage of the latest innovations and stay ahead of ever-changing customer needs and competitive threats.



Success requires transformation into an intelligent enterprise that supports **continuous innovation and change** across the organization.

Building Digital Supply Chains Is at the Heart of Transformation

As the global pandemic wreaks economic turmoil around the world, modern supply chains face unprecedented challenges and are drawing an increased level of scrutiny. In fact, the supply chain has transitioned from a behind-the-scenes organizational function to a front-and-center competitive differentiator for an enterprise.

To succeed in this new role, the supply chain must emerge as a protagonist that enables your organization to:

- Become more agile to quickly sense, predict, and respond to disruptions
- Increase productivity through digitalization (Industry 4.0)
- Improve connectivity with business partners to support next-level collaboration
- Run sustainable business practices

Companies that have made their supply chains more resilient have invested in making them more digitalized. SAP solutions support the digital transformation of your supply chain to better design, plan, manufacture, deliver, and operate products. This **design-to-operate** process leads to increased supply chain visibility and betterinformed decisions based on data-driven insights. In addition, it delivers a true digital thread that connects critical data points from early product design throughout manufacturing, logistics, service, and operations. This digital thread keeps information synchronized across business processes and systems, supports traceability and change management, and ultimately enables feedback loops along the product and asset lifecycle.



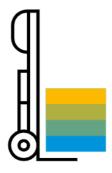
SAP solutions support the **digital transformation of your supply chain** to better design, plan, manufacture, deliver, and operate products.

Make the Supply Chain Your Entry Point to Enterprise-Wide Transformation

While the need for resilient supply chains has been a consistent rallying cry over the past year, digital transformation is often a complex and time-consuming process. In today's fast-paced business environment, transformation needs to be bite-sized, following the speed that best suits your requirements and timelines. Our answer to this need is the introduction of SAP Digital Supply Chain Management, edition for SAP S/4HANA. As a composable package of solutions for supply chain professionals, the edition can be deployed independently from other solution implementations and ERP transformations. This means it can be a stepping stone to broader enterprise transformation with SAP S/4HANA, while helping you focus immediately on urgent supply chain needs involving production and service parts planning, warehouse and transportation management, and manufacturing operations.

COMPREHENSIVE SET OF SOLUTIONS FOR THE PLAN-TO-FULFILL PROCESS

Plan to fulfill, a subprocess within design to operate, describes the journey of information through the stages of supply and demand planning, manufacturing, and logistics. When engineering designs a new product or redesigns an existing one, supply chain planners need to consider the impact on demand, supply, and production. They must also collaborate with their suppliers to purchase newly defined components or materials. Manufacturing receives information about the new or modified product from engineering and makes the appropriate adjustments to the required production steps. The finished product is warehoused and then transported as customer orders are received.



The edition can be a **stepping stone to broader enterprise transformation**,

while helping you focus immediately on urgent supply chain needs involving production and service parts planning, warehouse and transportation management, and manufacturing operations.

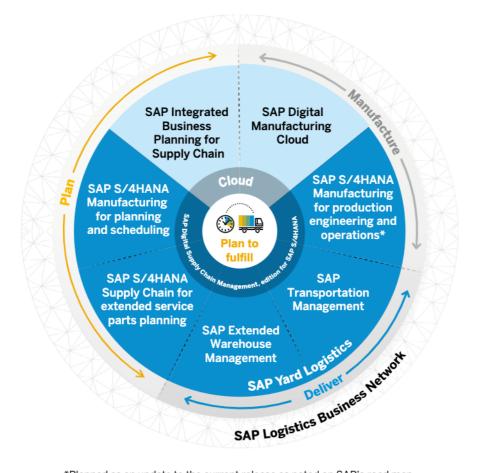
To support the plan-to-fulfill scenario, SAP Digital Supply Chain Management, edition for SAP S/4HANA provides – jointly with an underlying ERP system – a modular and interoperable set of solutions that include the following (see Figure 1):

- SAP Extended Warehouse Management (SAP EWM) application
- SAP Transportation Management (SAP TM) application
- SAP Yard Logistics application
- SAP S/4HANA Manufacturing solution for planning and scheduling

- SAP S/4HANA Manufacturing solution for production engineering and operations (planned as an update to the current release as noted on SAP's road map)
- SAP S/4HANA Supply Chain solution for extended service parts planning

The edition also tightly integrates with our other cloud solutions such as SAP Integrated Business Planning for Supply Chain (SAP IBP for Supply Chain), SAP Digital Manufacturing Cloud, SAP Logistics Business Network, and SAP S/4HANA (see Figure 1). Therefore, organizations can derive sustained value through the implementation of scenarios that span the complete plan-to-fulfill cycle.

Figure 1: Overview of SAP Digital Supply Chain Management, Edition for SAP S/4HANA



^{*}Planned as an update to the current release as noted on SAP's road map

KEY DESIGN PRINCIPLES

SAP Digital Supply Chain Management, edition for SAP S/4HANA is based on the following key design principles:

- Modularity
- · Interoperability and integration
- One code line with SAP S/4HANA

The sections below explore these principles in more detail.

Modularity

With the modular framework of the edition of SAP Digital Supply Chain Management for SAP S/4HANA, you can accelerate time to value by implementing critical supply chain capabilities in a decentralized fashion. This enables you to address immediate disruption threats while taking an incremental journey toward broader transformation with SAP S/4HANA. In other words, your business can start its digital supply chain transformation today while keeping core enterprise processes stable.

A modular framework drives success by providing the flexibility to pick and choose capabilities that are most relevant to your business and industry. You can deploy the edition of SAP Digital Supply Chain Management for SAP S/4HANA as a side-by-side system in an on-premise or private cloud environment. This allows you to scale and deliver value independently from your core ERP system. In addition, you can reduce risk and complexity due to independent upgrade cycles and minimize downtime between core ERP systems and modules of SAP Digital Supply Chain Management, edition for SAP S/4HANA. Businesses can merge these systems at a later time.

Interoperability and Integration

Interoperability, another core design principle of this edition, helps ensure cohesive information and fluid communication between systems. This is achieved by modern interface technologies as well as aligned data and configuration structures – providing a practical approach to managing the efficient exchange of master and transactional data. In addition, interoperability increases productivity and control by making data more easily available and accessible to the various users. Provisioning solutions supported by the edition in one system provides significant commercial benefits, while capitalizing on SAP's latest innovations helps optimize and streamline your digital supply chain.

With SAP Digital Supply Chain Management, edition for SAP S/4HANA, users benefit from smooth, vertical integration of the back end with the decentralized supply chain management system across your key business scenarios.

The edition also supports the creation of a centralized hub that connects to multiple SAP ECC or SAP S/4HANA back-end systems. This is especially helpful for organizations with distributed manufacturing and supply chains that want to centralize planning, scheduling, and warehouse and transportation management. It enables integration to a landscape with multiple ERP instances independent of release cycles and solution (such as SAP ECC, SAP S/4HANA, or a third-party ERP system on a project basis) and provides greater flexibility for mergers, acquisitions, and carve-outs.

One Code Line with SAP S/4HANA

The solutions within the SAP Digital Supply Chain Management, edition for SAP S/4HANA share a common code line with the core SAP S/4HANA system. This means you will receive future innovations on the same schedule as SAP S/4HANA, which minimizes disruption and streamlines implementation.

Modules of SAP Digital Supply Chain Management, Edition for SAP S/4HANA

The edition of SAP Digital Supply Chain Management for SAP S/4HANA includes several modular solutions that tightly integrate and work with other SAP products to support scenarios

that span the plan-to-fulfill cycle (see Figure 2). The following sections describe these modular solutions in detail.

Figure 2: Framework of SAP Digital Supply Chain Management, Edition for SAP S/4HANA SAP Digital Supply Chain Management, edition for SAP S/4HANA (on premise) Planning and manufacturing cluster Supply Chain for extended service parts planning SAP S/4HANA SAP S/4HANA **SAP Extended** Manufacturing for SAP Transportation Manufacturing for Warehouse production engineering Management planning and scheduling and operations* **SAP Yard Logistics** Logistics cluster Production planning and control Sales and distribution (SD) Materials management (MM) (PP) SAP ERP (SAP ECC) Financials (FN) Quality management (QM) Plant maintenance (PM) system

^{*}Planned as an update to the current release as noted on SAP's road map

MANUFACTURING PLANNING AND SCHEDULING

The edition of SAP Digital Supply Chain Management for SAP S/4HANA provides advanced production planning and detailed scheduling capabilities through the SAP S/4HANA Manufacturing solution for planning and scheduling. This solution goes far beyond classic manufacturing resource planning (MRP II) functionality by allowing you to plan production resources finitely. You can consider multiple production capacities and material-availability constraints in your planning model and integrate manufacturing master data (such as routings and bills of materials) to define the basis for production planning data structures. The solution also facilitates comprehensive and synchronized planning and manufacturing processes of different industries and supports tightly integrated planning and execution processes.

The solution's production planning capabilities match overall supply to demand. With access to global supply and demand data, you can use multiple planning tools to resolve typical plant-level conflicts and arrive at an optimized, executable plan for detailed scheduling.

Detailed scheduling capabilities use the executable production plan to derive the optimal sequence of activities required to meet specific production commitments that can be released to the shop floor for execution.

TRANSPORTATION MANAGEMENT

Another module of the edition of SAP Digital Supply Chain Management for SAP S/4HANA is the SAP Transportation Management (SAP TM) application. SAP TM helps you improve operational efficiency, reduce costs, and maximize the return on transportation spend. It forecasts demand and shipment volumes accurately, consolidates

orders, fine-tunes transportation planning, and enhances freight, fleet, and logistics management. As a result, you can achieve freight spend savings and real-time visibility into global transportation and domestic shipping across transportation modes and industries.

With the strategic freight management capabilities of SAP TM, you can optimize freight procurement with advanced analysis, forecasting, and simulation. You can evaluate and prepare bids with predictive, insight-driven quotation rounds and exchange information efficiently with logistics service providers.

Order management functionality enables you to generate optimal routing proposals dynamically for rules-based orders. You can manage changes in transportation demand with real-time order-to-cash and procure-to-pay processes and integrate order and delivery data in SAP ERP.

With transportation-planning capabilities, you can use manual, map-based, and automated planning and dynamic replanning functions. You can build pallets with flexible, rules-based optimization, track and manage driver resources with default assignments in an interactive cockpit or Gantt chart, and visualize the planning of vehicle space and loading.

Transportation-execution capabilities let you take advantage of direct real-time integration into warehouse processes and streamline logistics. You can execute and monitor shipments in real time with proactive alerting and notification supported by flexible network-based collaboration with business partners. You can also improve customer service levels while handling delays and disruptions.

With comprehensive freight cost management functionality, you can streamline freight contract management. In addition, you can accurately manage transportation charges and cost settlement with carriers and customers to optimize freight costs and gain greater insights through freight-cost reporting.

EXTENDED WAREHOUSE MANAGEMENT

The SAP Extended Warehouse Management (SAP EWM) application is another module of the edition of SAP Digital Supply Chain Management for SAP S/4HANA. With SAP EWM, you can manage simple to high-volume warehouse operations by leveraging state-of-the-art automation technologies and optimization techniques. It allows you to optimize inventory tracking, cross-docking, distribution operations, labor management, multichannel fulfillment, and more – all in real time.

As part of the edition, SAP EWM also enables dedicated performance for warehouse operations and EWM servers close to the warehouse (or in the same region or time zone as the warehouse).

You can orchestrate inbound and outbound processing, as well as storage and retrieval operations in between. You can consistently organize and monitor goods movement triggered by processes for procurement, shipping, production supply, and receipt and integrate them with quality management, transportation, and foreign-trade compliance.

SAP EWM provides you with visibility into inventory and logistics, along with advanced capabilities such as value-added services, kitting, labor planning and management, yard management, and comprehensive analytics. It also includes functions for cross-docking, import and export, quality management, picking from goods receipts, and push deployment.

You can readily integrate SAP EWM with the latest technologies for pick by voice, augmented reality, radio-frequency identification (RFID), material handling equipment, autonomous vehicles, and warehouse robots.



With the **modular framework** of the edition of SAP Digital Supply Chain Management for SAP S/4HANA, you can accelerate time to value by implementing critical supply chain capabilities in a decentralized fashion.

SAP EWM helps you accelerate fulfillment while optimizing resources and mitigating problems efficiently. You gain real-time insight into operations with stock, resource, and process transparency. As a result, you can reduce warehouse costs, improve customer service, heighten productivity, increase transparency, enhance accuracy, and support the growth and scalability your organization needs.

YARD LOGISTICS

Run more efficient logistics and accelerate digitalization by using the SAP Yard Logistics application. It enables you to streamline the planning, execution, and settlement of yard processes with back-end integration and maximize visibility into yard processes with a range of visualization and reporting tools.

With the application's order and appointment planning and check-in capabilities, you can improve resource use to reduce idle time and avoid intermediate storage and wasteful movement. You can also plan incoming and outgoing transport with more system support and collaboration with carriers and manage gate-in and gate-out processes more efficiently with integrated and automated processes.

Yard execution and processing capabilities enable you to deliver products and services faster, improve customer service with visibility and control, and accelerate activity execution to increase the throughput of the yard. You can also manage processes and employees efficiently with a mobile work environment, Internet of Things (IoT) integration, and extensive planning capabilities.

In addition, comprehensive graphical monitoring tools enable you to identify, avoid, and solve potential issues with insight. You can manage yard logistics processes more effectively, accelerate turnaround, and reduce manual efforts in yard operations with the automated capture and analysis of high-quality data.

PRODUCTION ENGINEERING AND OPERATIONS

SAP plans to make the SAP S/4HANA Manufacturing solution for production engineering and operations available in a future release of SAP Digital Supply Chain Management, edition for SAP S/4HANA, as noted on SAP's road map.

The solution bridges process gaps between product design, manufacturing engineering, supply chain management, and production operations with enriched bill of materials (BOM) management, production process planning, change management, and shop-floor execution features.

These production engineering and operations capabilities allow you to effectively manage your engineering-to-manufacturing collaboration and handover. This is crucial when producing highly engineered products that are subject to continuous design changes, for example, due to regulatory requirements.

Furthermore, you can model the production process with a high level of detail, including in-depth work instructions for your production operators. You can even perform production planning in parallel to production engineering with the help of planning BOMs and planning routings.

These production engineering and operations capabilities also give you the flexibility to incorporate engineering changes, even if the production process has already started. You can perform comprehensive change-impact analysis to minimize production disruptions resulting from changed BOMs, routings, work instructions, and production orders, while maintaining alignment with shop-floor execution.

The solution's modern shop-floor user interface integrates the information that operators need to perform their work and deal with issues quickly. With enhanced capabilities to record data for serialized parts and batches, it provides traceability over your products and a detailed production action log to support root-cause analysis and accurate production decision-making.

EXTENDED SERVICE PARTS PLANNING

The SAP S/4HANA Supply Chain solution for extended service parts planning is also part of SAP Digital Supply Chain Management, edition for SAP S/4HANA. This module supports planning functions specific to service parts and provides transparency throughout the supply chain – from the moment demand occurs to the delivery of the product. Planning for your service parts takes place in hierarchical distribution structures, which contain any number of your locations.

Extended service parts planning enables you to reduce your ordering and stockholding costs, improve service levels, and shorten your delivery times. It also offers high-quality analytic applications to monitor, evaluate, and optimize your planning.

With extended service parts planning, you can capture and manage demand for your location products to generate a demand history. The stocking and destocking service determines the locations at which it would be sensible to increase or decrease stock, based on past demand.

The solution's forecasting capability covers the product lifecycle from phase-in planning for new products with various types of product interchangeability through phase-out planning for discontinued products. You can react flexibly to changing demands and determine the optimal forecast model for a location product.

The distribution requirements planning capability organizes replenishment planning. It allows you to efficiently check the planning results and supports a multilevel approval process as required.

The deployment functionality controls the distribution of incoming goods within the network on the basis of current demand. It uses priority tiers, sequence rules, and fair share distribution to distribute the goods optimally.

The inventory balancing capability balances excess and shortage at the individual locations – helping ensure that stock within the network is evenly distributed.



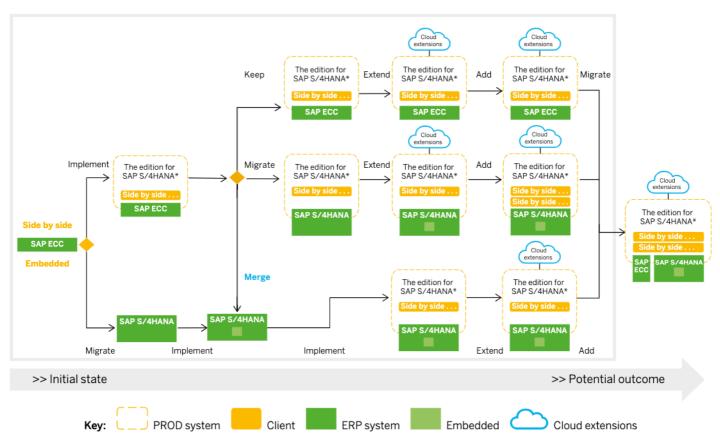
A modular framework drives success by providing the **flexibility to pick and choose capabilities** that are most relevant to your business and industry.

Your Journey to SAP Digital Supply Chain Management, Edition for SAP S/4HANA

The edition of SAP Digital Supply Chain Management for SAP S/4HANA is suitable for a variety of SAP customers – whether you are still using SAP ECC, have already moved to SAP S/4HANA, or are brand new to SAP.

This section describes the generic transformation journey to a digital supply chain—centric system landscape (see Figure 3). Different solution modules of SAP Digital Supply Chain Management, edition for SAP S/4HANA might each take a different transition path.

Figure 3: Architecture Transformation Road Map



*The edition for SAP S/4HANA refers to SAP Digital Supply Chain Management, edition for SAP S/4HANA.

The first decision point in this journey deals with how to set up the system landscape to support the specific capability you are implementing in the edition. There are two basic options for system setup: embedded or side-by-side (see Figure 4).

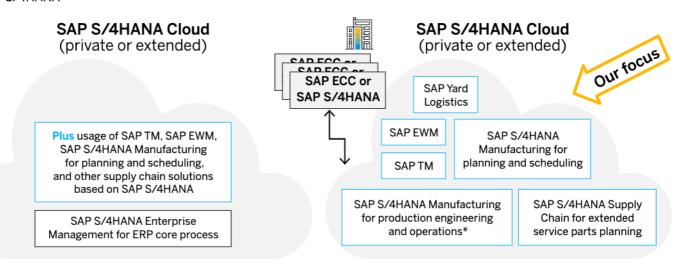
Figure 4: Embedded Versus Side-by-Side Approach to System Setup

Embedded usage

- · Simplified system landscape
- Leaner integrations between ERP core and advanced layer of SAP S/4HANA
- But implies dependency for the move from ERP to SAP S/4HANA

Side-by-side usage

- · Rapid supply chain transformation
- · Modular and flexible enhancements to ERP core
- Centralized hub scenarios connected to multiple ERPs
- Ability to run applications independently from ERP



Embedded usage within one integrated SAP S/4HANA private cloud system

Side cars connected to ERP

*Planned as an update to the current release as noted on SAP's road map

In the embedded approach, you need to first migrate your SAP ECC or third-party ERP system to SAP S/4HANA and then implement the specific solution module within your SAP S/4HANA system. While this approach creates an up-to-date system landscape, it requires a major generational shift involving planning efforts and investments that depend on the scope and complexity of the project.

In contrast, the side-by-side approach enables a more rapid digitalization of your supply chain by implementing a new SAP S/4HANA system that runs "side by side" with your existing SAP or third-party ERP system. With this approach, the edition of SAP Digital Supply Chain Management for

SAP S/4HANA enables a stepwise transition that helps you become familiar with SAP S/4HANA from a technical, operational, user experience, and functional scope perspective. By gaining early insights into the value drivers and transformation prerequisites, you can then design the optimal plan for a broader migration to SAP S/4HANA. In addition, you can prepare for the multifaceted migration from SAP ECC to SAP S/4HANA by gaining firsthand knowledge and experience in SAP S/4HANA functionality to close the skills gap. This becomes especially relevant for companies that are still running SAP's legacy ERP application and making their journey toward SAP S/4HANA.

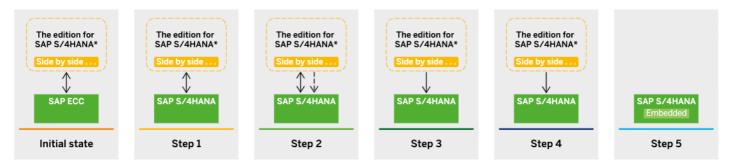


If you choose the side-by-side approach, you can decide to extend the landscape with the modular solutions of SAP Digital Supply Chain Management, edition for SAP S/4HANA or add more clients to the edition. You can also extend the edition with directly related cloud extensions, such as SAP Logistics Business Network, SAP Integrated Business Planning for Supply Chain, or SAP Digital Manufacturing Cloud.

One key benefit of the side-by-side approach is that you have the flexibility to merge the initially implemented edition of SAP Digital Supply Chain Management for SAP S/4HANA into an SAP S/4HANA system.

The merge from a side-by-side edition of SAP Digital Supply Chain Management for SAP S/4HANA into an embedded SAP S/4HANA follows a stepwise approach (see Figure 5):

Figure 5: Strategy for Merging Side-by-Side Edition with SAP S/4HANA



^{*}The edition for SAP S/4HANA refers to SAP Digital Supply Chain Management, edition for SAP S/4HANA.

- Step 1: Migrate the SAP ECC back end to the latest version of SAP S/4HANA using the available tools and procedures from SAP.
- Step 2: Copy your master data from the sidecar applications into the main SAP S/4HANA system.
- Step 3: Stop SAP S/4HANA from delegating work to the edition system and perform new processes locally in the embedded application.
- Step 4: Complete the work (for example, close already opened orders) started before Step 3 in the edition's side-by-side application (if applicable).
- Step 5: Retire the side-by-side application.

In summary, the architecture transformation journey of SAP Digital Supply Chain Management, edition for SAP S/4HANA supports multiple pathways that enable you to realize the following value propositions:

- Flexible starting point (with the ability to merge later)
- Faster time to value for digital supply chain capabilities (no initial back-end migration needed)
- Experiences with SAP S/4HANA in a less complex environment
- Earlier start with related cloud extensions
- Extensibility with more side cars or embedded digital supply chain modules

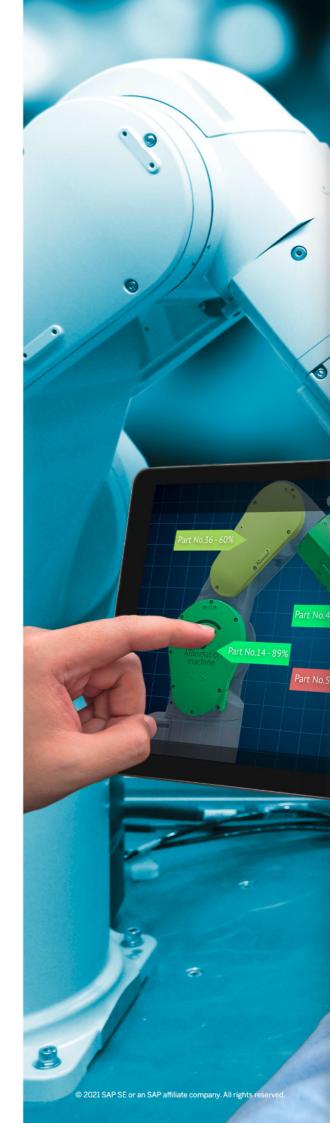
Get Started Today

SAP Digital Supply Chain Management, edition for SAP S/4HANA, is a package of composable solutions that can be deployed independently from other solution implementations to help meet immediate supply chain needs covering the plan-to-fulfill cycle. It provides a simplified, step-by-step entry point to the broader enterprise transformation offered through SAP S/4HANA and is suitable for new SAP customers as well as those currently using SAP ECC or SAP S/4HANA.

At SAP, we are excited to support you on your digital transformation journey. You can take the first step by reaching out to your SAP representative or by visiting us online.



The edition of SAP Digital Supply Chain Management for SAP S/4HANA is suitable for a variety of SAP customers – whether you are still using SAP ECC, have already moved to SAP S/4HANA, or are brand new to SAP.



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