Improve the Efficiency, Integration, and Flexibility of Business Processes
Manage custom process applications to meet business needs

Your company has invested in enterprise software, such as SAP® Business Suite applications, to support standard business processes in ways that enable exceptional efficiency. Moreover, you have a variety of process needs that are unique to your company. Your goal, then, is to find a way to automate and optimize your company-specific processes efficiently and flexibly.

For example, suppose you want to compose an innovative new process that differentiates your business from the competition, or maybe orchestrate a process that touches multiple enterprise applications for breakthrough levels of efficiency. Perhaps you need to exchange information – such as orders, shipments, or invoices – across distributed, heterogeneous applications and with business partners. And what if you want to automate a process that’s currently manual, cumbersome, and costly? You need to respond to these types of needs and opportunities quickly and affordably, so your business can benefit from efficient processes that save time and money while enhancing productivity.

SAP Process Orchestration technology allows you to model, execute, and monitor custom process applications quickly and cost-effectively. From simple workflows to complex processes, the technology enables you to develop innovative process applications that can span solutions from SAP and other vendors.
Support the improvement lifecycle of business processes

SAP Process Orchestration reduces the time and cost associated with modeling, implementing, integrating, and monitoring new processes and incorporating business rules into automated processes. Combining the power of SAP Business Process Management software, SAP Process Integration technology, and the SAP Business Rules Management component into one integrated solution, it supports every stage of the improvement lifecycle for business processes. For example, you can:

- Model and execute processes and rules collaboratively and without coding
- Integrate processes so people can reliably exchange information across distributed SAP and third-party applications – within and beyond your organization
- Centrally manage business rules that automate decisions and enforce policies
- Monitor processes and identify process bottlenecks

Use a single integrated solution to orchestrate business processes.

Support the improvement lifecycle of business processes

- Model processes, integration scenarios, and business rules
- Implement processes and generate intuitive interfaces
- Run process applications and optimize process performance
- Run integration scenarios in hybrid environments
Model processes, integration scenarios, and business rules

SAP Process Orchestration supports collaboration between business and IT specialists by enabling them to create and adapt processes jointly using the graphical business process model and notation (BPMN) standard. As part of the process modeled in BPMN, business users can describe the flow of activities, events, and decision gateways that form an overall process. IT professionals can then use the same environment to add the necessary technical details. This approach helps ensure nothing gets lost in translation.

Alternatively, you can model processes outside of SAP Process Orchestration with other tools that support BPMN 2.0. For example, SAP PowerDesigner® software used for enterprise-wide process modeling allows your organization to capture current-state business processes in business-natural terms that drive BPMN designs. You can then reuse these process models in SAP Process Orchestration.

You can also use the BPMN 2.0 standard to model integration scenarios, or integration flows. SAP Process Orchestration comes with predefined integration patterns that simplify the definition of mappings, channels, and interfaces to determine an integration flow. And SAP Process Orchestration allows you to create and modify business rules through rule representation formats such as decision tables and flow rules in your preferred natural language.

Support the improvement lifecycle of business processes

Model processes, integration scenarios, and business rules

Implement processes and generate intuitive interfaces

Run process applications and optimize process performance

Run integration scenarios in hybrid environments
Implement processes and generate intuitive interfaces

Regardless of the software used to model new processes or integration scenarios, with SAP Process Orchestration, you only need one solution and skill set to implement them. The technology lets you add technical details to the various aspects of a process in a number of ways:

- **Human activities.** Use automatically generated end-user interfaces – based on SAPUI5, the UI development toolkit for HTML5 – for viewing details and performing associated activities. Open application programming interfaces give you the flexibility to create user experiences with your user interface of choice.
- **Automated activities.** Access, update, and reuse the business functionality in your heterogeneous application landscape through, for example, Web services and adapters.

SAP Process Orchestration supports the SAP Fiori® user experience (UX), including the “My Inbox” app that lets you process all tasks in one in-box.

Support the improvement lifecycle of business processes

Model processes, integration scenarios, and business rules

Implement processes and generate intuitive interfaces

Run process applications and optimize process performance

Run integration scenarios in hybrid environments

Continued on the next page
• **Application-to-application (A2A) and business-to-business (B2B) integration.** Use one piece of middleware to exchange information reliably across distributed business applications and with business partners. The software provides standards-based, high-performance integration capabilities and comes with preconfigured adapters for A2A, B2B, and electronic data interchange (EDI) that accelerate integration projects.

• **Decision gateways.** Use business rules to automate decisions related to a process or integration scenario (for example, to trigger rules-based alerts for critical business events). Once IT sets up the rules, business users can change the rules as needed, without IT assistance.

• **Enterprise service bus.** Employ a central point to advertise and run Web Services in a service-oriented architecture, with a UDDI 3.0–compliant Web services directory. Preconfigured enterprise services support the SAP ERP application and other industry solutions.

SAP Process Orchestration is our standards-based enterprise service bus.
Run process applications and optimize process performance

Once you deploy a custom process application, process participants can use an SAPUI5-based in-box as a central access point for their tasks. At any time, process participants can see a graphical representation of where they are in the overall process.

Built-in reporting functionality gives process owners an aggregated view of processes and tasks. They can extract process-related data and analyze it using SAP BusinessObjects™ business intelligence (BI) solutions – for example, to answer ad hoc questions and generate custom reports.

Additionally, SAP Process Orchestration is tightly integrated with SAP Operational Process Intelligence software. Your operations managers and line-of-business (LoB) users gain visibility into and control over processes with up-to-the-minute monitoring of end-to-end processes that span multiple systems, including SAP and third-party systems.

Support the improvement lifecycle of business processes

Model processes, integration scenarios, and business rules

Implement processes and generate intuitive interfaces

Run process applications and optimize process performance

Run integration scenarios in hybrid environments

Drive agile processes and business operations through better-informed and faster operational decision-making.
Metrics and key performance indicators (KPIs) track the progress of processes and are configured based on the specific information needs of your users. KPIs give operations managers and LoB users real-time visibility into current process performance. When a process instance needs attention, SAP Operational Process Intelligence lets you perform further analysis or act right away. You can drill down into the details of a specific process instance to quickly gain an impression of what is happening in each phase from a business point of view. Or you can go a step further by accessing the underlying business systems involved in the process for more detailed information.

An insight-to-action capability makes it possible to trigger tasks related to this process instance. The user can create tasks and take direct actions based on insights, and the software also can trigger actions based on predefined rules. So, your business users can take direct, data-driven steps, improving the agility and efficiency of their business operations.

By highlighting areas where attention is needed and clustering areas based on attributes and statuses, the technology helps users to better understand the current situation. They gain insights for making better-informed and faster decisions during daily business operations.

Support the improvement lifecycle of business processes

Model processes, integration scenarios, and business rules

Implement processes and generate intuitive interfaces

Run process applications and optimize process performance

Run integration scenarios in hybrid environments

Continued on the next page
SAP Operational Process Intelligence acts as a fitness tracker for business operations. Designed for process monitoring, it enhances process agility by giving you full situational awareness of daily operations and the ability to turn insight into instant action. By combining it with SAP Process Mining software by Celonis, your organization can create a powerful operational intelligence platform.

SAP Process Mining focuses on process analysis and serves as an MRI for business processes. Powered by SAP HANA®, it analyzes historical data to identify opportunities for process optimization and to drive process efficiency. The software uses the Big Data analytics capabilities of the SAP HANA platform to analyze event logs of all process instances. The resulting holistic process model enables the exploration of all process variants in context so your business users can derive insights into performance based on objective facts. This helps your organization to quickly prioritize and enable continuous process improvement projects.

Although both products can be purchased and used individually, together the combined solutions offer a compelling set of end-to-end process improvement capabilities. Your organization can realize “process thinking” within its culture while enabling the operational and process excellence that is critical for every digital business.

Support the improvement lifecycle of business processes
Model processes, integration scenarios, and business rules
Implement processes and generate intuitive interfaces
Run process applications and optimize process performance
Run integration scenarios in hybrid environments
Run integration scenarios in hybrid environments

The trend of applications running in the cloud results in many customers dealing with hybrid landscapes that span both cloud and on-premise deployments distributed around the globe. SAP’s integration platform offerings – SAP Process Orchestration technology and SAP Cloud Platform Integration service – address the growing integration demands that arise when dealing with various integration domains.

SAP Process Orchestration and SAP Cloud Platform Integration are complementary offerings supporting enterprise application integration. Whereas the former is used for any-to-any integration needs with a focus on A2A and B2B integration projects, the latter specifically addresses cloud-to-cloud and on-premise-to-cloud applications.

As of version 7.5 and higher, SAP Process Orchestration also supports the cloud integration runtime of SAP Cloud Platform Integration. This gives you the choice of deploying integration content for your cloud applications using either SAP Process Orchestration or SAP Cloud Platform Integration.

SAP Cloud Platform Integration complements SAP Process Orchestration, giving customers a choice of on-premise or cloud-based integration.
Take processes to the next level

With SAP Process Orchestration, you can model, implement, integrate, and monitor custom process applications and integration scenarios. In one environment, you can improve the speed, quality, and transparency of human-based and system-based activities. The technology enables you to:

- Reduce the time and cost needed to model and implement business process applications and generate intuitive user interfaces
- Lower integration costs and meet the need for connecting heterogeneous systems within and beyond your organization
- Improve data quality and reduce data entry efforts through process automation and integration
- Reduce the time to create and adapt business rules, and use them to enforce compliance with legal regulations and corporate policies
- Increase the speed and accuracy of business decisions by embedding business-user-maintained rules into automated processes

Manage custom process applications, from high-level definition and specification of technical implementation to process deployment and execution.
Summary
SAP® Process Orchestration technology enables your IT and line-of-business professionals to quickly and flexibly model, implement, integrate, and monitor custom process applications. It allows you to securely exchange information across distributed applications as well as with customers and partners. By using the technology to create more streamlined, adaptable processes, you can innovate faster and be more responsive to changing business demands.

Objectives
• Quickly create and adapt processes to changed market conditions
• Enforce policies more easily
• Integrate business processes
• Increase visibility into processes
• Reduce time-consuming, error-prone processes

Solution
• Model-based development using business process model and notation
• Ability to complement process models with technical details
• Application-to-application and business-to-business integration
• Enterprise service bus
• Centralized business rules management

Benefits
• Improve process speed and flexibility by creating custom process applications
• Reduce development and integration costs
• Enforce compliance with corporate policies via automated rules
• Lower costs by leveraging processes, rules, and integration management from one unified offering

Learn more
Contact your SAP representative, or visit us online.