SAP Solution Brief
SAP Process Orchestration

Objectives

Solution

Benefits

Quick Facts

Improve the Efficiency, Integration, and Flexibility of Business Processes

SAP

The Best-Run Businesses Run SAP®

Manage custom process applications to meet business needs

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So 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 process needs that are unique to your company. Your goal, then, is to find a way to efficiently automate and flexibly optimize your company-specific processes.

For example, what if you want to compose an innovative new process that differentiates your business from the competition? Or 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 that your business benefits from processes that use time, money, and productivity efficiently every day.

This is where SAP Process Orchestration technology comes in. The solution allows you to model, execute, and monitor custom process applications quickly and cost-effectively. You can develop innovative process applications – from simple workflows to complex processes – that can span solutions from SAP and other vendors.

Support the improvement lifecycle of business processes

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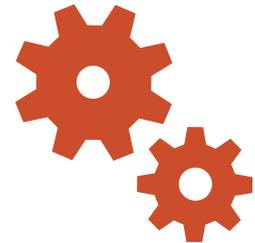Model processes, integration scenarios, and business rules

Implement processes and generate user-friendly interfaces

Run process applications and optimize process performance

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 non-SAP applications – and 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.

Model processes, integration scenarios, and business rules

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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 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.

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Regardless of the software used to model new processes or integration scenarios, you can implement them using SAP Process Orchestration. You'll save time and money by using just one solution and skill set to add the technical details required to get process models and integration scenarios up and running. SAP Process Orchestration enables you to add the technical details to the various aspects of a process in a number of ways.

Human activities – Use autogenerated, SAPUI5-based end-user interfaces tailored for viewing details and performing associated activities. In addition, the technology provides open application programming interfaces that give you the flexibility to create user experiences with your user interface of choice.

Automated activities – You can access, update, and reuse business functionality of your heterogeneous application landscape through, for example, Web services and adapters.

SAP Process Orchestration supports SAP Interactive Forms software by Adobe so you can incorporate forms into new processes.

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scenarios, and business rules

**Implement processes and generate
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**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 a standards-
based, high-performance enterprise services
bus and comes with prebuilt A2A and B2B
adapters 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 these rules are set up by IT,
business users closest to processes can
change the rules in response to new demands
without IT assistance.

Change business rules by, for example, using
a Web-based graphical interface or importing
updated decision tables maintained in
Microsoft Excel.

Run process applications and optimize process performance

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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.

In addition, with SAP Process Orchestration, process owners can use built-in reporting functionality to get an aggregated view of processes and tasks. They can also extract process-related data and analyze it using SAP BusinessObjects™ business intelligence solutions – for example, to answer ad hoc questions and generate custom reports.

What's more, SAP Process Orchestration is tightly integrated with SAP Operational Process Intelligence software. With SAP Operational Process Intelligence, process owners and line-of-business users can gain real-time visibility into end-to-end operations by analyzing large volumes of process data that can come from any data source. This includes processes executed with SAP Process Orchestration. Using metrics and indicators, key users can analyze process performance over various time intervals. They can also identify problems and detect business situations in real time and take appropriate actions.

Take processes to the next level

Take processes to the next level

With SAP Process Orchestration, you can model, implement, integrate, and monitor custom process applications and integration scenarios. Everything you need to improve the speed, quality, and transparency of human- and system-based activities is available in one environment. You can:

- 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.

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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 and 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 at www.sap.com/processorchestration.

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