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SAP BTP SERIES:

SAP INTEGRATION SUITE

by Aryan Tomar

In today's rapidly evolving digital landscape, businesses must seamlessly connect applications, data, and processes across diverse environments to stay competitive. SAP Integration Suite serves as a comprehensive, enterprise-grade integration platform that enables organizations to unify on-premise and cloud-based systems with agility and efficiency. This white paper explores the core capabilities of SAP Integration Suite, its role in streamlining business operations, and how it empowers enterprises to achieve end-to-end connectivity. By leveraging prebuilt integrations, AI-driven insights, and low-code/no-code tools, businesses can enhance productivity, drive innovation, and accelerate their digital transformation journey.

— Warren Norris, Managing Partner

What is SAP Integration Suite?

SAP Integration Suite is a cloud-based platform that simplifies the integration of applications, data, and processes across on-premise, cloud, and hybrid environments, without disrupting your business operations. Because this integration shares data between SAP, non-SAP, cloud, and on-premises systems, applications can communicate significantly faster.

SAP Integration Suite consists of these major components:

- SAP Cloud Integration (formerly known as CPI) for seamless data exchange
- API Management for securing APIs
- Open Connectors to connect to third-party applications
- Integration Advisor for ease of data mapping
- Event Mesh for real-time events and messaging

Equipped with AI-driven tools, it also supports hybrid deployment and adheres to industry-standard compliance in order to help companies automate workflows and increase security for digital transformation. A suite like this simplifies the

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integration of diverse technologies, easing the transition brought about by digitization.

Key Components:

Let's dive a little deeper into the components that we mentioned earlier and what each of them entail:

SAP Cloud Integration (CPI): Provides process integration between cloud and on-premise systems, allowing secure data exchange in real-time.



API Management: Directs the management, securing, and monitoring of APIs that allow controlled access to SAP and third-party applications.

Open Connectors: Includes pre-built connectors to third-party SaaS applications like Salesforce, Amazon, and Google.

Integration Advisor: Applies AI-driven recommendations to make mapping easier and standardize integrations across industries.

Event Mesh: Ensures event-driven architecture with support for asynchronous messaging and event distribution in real time across applications.

B2B & B2G integration: Integrates using industry standards such as EDI and XML.

Data Intelligence: Enables the processing and transformation of data in an efficient manner to allow for better insights and decision-making.

Together, these components create a flexible, scalable integration platform that supports hybrid and multi-cloud environments.







Additional Features:

In addition to its key components, SAP Integration Suite offers additional features that enhance its functionality for modern enterprise needs. Here are some of them:

Hybrid Deployment Support: Allows for the integration of cloud, on-premise, and hybrid deployments.

Low-Code/**No-Code Integration:** Requires minimal coding, as integration is simplified with graphical user interface support.

Machine Learning & AI-Driven Mapping: Automates and optimizates data mappings with AI-based recommendations.

Security & Compliance: Ensures secure integrations with data encryption, authentication, and role-based access control.

Monitoring & Analytics: Provides real-time monitoring and log analysis for troubleshooting and performance optimization.

Multi-Cloud Connectivity: Supports integrations with AWS, Microsoft Azure, and Google Cloud for flexibility.

Industry-Specific Content: Offers pre-configured integration templates for industries like retail, finance, healthcare, and manufacturing.

Integration with Blockchain: Integrates with blockchain networks for the purpose of supporting trust-based transactions.

Standard Packages: Streamlines integration processes by providing pre-built connectors, mappings, and configurations.

This table offers an overview of how the components interact and contribute to the Suite.

| | Component | Function | Key Features | Technologies Used | Business Benefits | Use Cases |
|--|-----------------------------------|---|--|---|---|---|
| | SAP Cloud Integration (CPI) | Connects cloud and on-premise applications for real-time data exchange. | Message transformation, process orchestration, secure connectivity. | Cloud Foundry, SAP BTP, REST/SOAP APIs. | Reduces integration complexity, enables hybrid IT landscapes. | Syncing ERP and CRM, automating procure-to-pay processes. |
| | API Management | Manages, secures, and governs APIs for controlled access. | API lifecycle management, traffic control, rate limiting, analytics. | OAuth, OpenAPI, GraphQL, SOAP. | Ensures secure API exposure, supports monetization. | Partnering API access, mobile app integration. |
| | Open Connectors | Provides pre-built connectors for third-party SaaS applications. | 150+ pre-built connectors, unified authentication, event-driven triggers. | REST, Webhooks, OAuth, JSON. | Reduces integration effort, faster SaaS connectivity. | Connecting SAP S/4HANA with Salesforce, Amazon, Google. |
| | Integration Advisor | AI-powered tool for mapping and standardizing data formats. | Machine learning-based mapping, industry standards (EDI, XML). | AI/ML algorithms, Business Context Viewer. | Reduces manual mapping, accelerates integration setup. | Standardizing financial transactions, automating supply chain data exchange. |

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| Component | Function | Key Features | Technologies | Business | Use Cases |
|---------------------------------|---|--|---|---|--|
| | | | Used | Benefits | |
| Event Mesh | Supports event-driven integration through asynchronous messaging. | Publish- subscribe messaging, event queues, real-time triggers. | MQTT, AMQP, Kafka, WebSockets. | Improves responsiveness, supports microservices architecture. | IoT device tracking, real-time logistics updates. |
| B2B & B2G Integration | Facilitates transactions between businesses and governments. | EDI, e-invoicing, regulatory compliance automation. | EDIFACT, X12, AS2, Peppol. | Ensures compliance, reduces manual reporting efforts. | VAT/GST reporting, supplier onboarding with government portals. |
| Data Intelligence | Processes and transforms data for better analytics. | Data cataloging, data lineage, AI-powered insights. | AI/ML, SAP Data Hub, Big Data connectors. | Enables predictive analytics, enhances data quality. | Fraud detection, customer behavior analysis. |
| Hybrid Deployment Support | Enables integration across cloud, on-premise, and hybrid environments. | Secure tunnels, cloud connectors, hybrid orchestration. | SAP BTP, Kubernetes, Edge Computing. | Flexibility in IT infrastructure, reduces migration costs. | Running SAP workloads on AWS/Azure while keeping core on-premise. |
| Monitoring & Analytics | Provides real-time monitoring and log analysis for integrations. | Centralized dashboard, error tracking, performance alerts. | AI-powered anomaly detection, SAP Cloud ALM. | Improves system reliability, reduces downtime. | Proactive issue resolution, SLA compliance tracking. |

Now that we understand the various components, let's discuss what the respective pros and cons of using this integration tool could mean for your business.

Pros of Using SAP Integration Suite:

1. Connects both SAP and non-SAP applications across cloud and on-premise through seamless connectivity.

2. Provides pre-built connectors for third-party services like Salesforce, Amazon, and Google. These standard packages reduce development effort and ensure industry-specific solutions.

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3. Enables developers to rapidly build integrations with a user-friendly, low-code/no-code integrated graphical interface.

4. Ensures enterprise-grade security through API management and security with authentication, encryption, and access control.

5. Supports real-time messaging and notifications through its event-driven architecture, cutting back on response time.

6. Uses AI-powered automation and machine learning in data mapping to reduce manual effort.

7. Supports hybrid and multi-cloud deployments with scalability and flexibility, making it easily adaptable for large enterprises.

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Cons of Using SAP Integration Suite:

1. Requires technical expertise to configure and optimize integrations.

2. The range of prices are a bit high for small business customers, especially when choosing more features while onboarding.

3. Relies on skilled/knowledgeable resource personnel to implement the advanced API management and events mesh.

4. Necessitates performance tuning exercises with large volume data transfers.

5. Only works within the SAP suite of products.

Overall, SAP Integration Suite is a powerful, highly scalable, and secure integration platform that requires technical expertise and investment. Feel free to contact us for a detailed breakdown!

SAP Integration Suite Use Case:

The use cases of SAP Integration Suite typically involve the integration of a SAP S/4HANA ERP system with a third-party e-commerce platform, such as Shopify, for automated order processing. Here is an example of what the components would look like for a Shopify use case:

SAP Cloud Integration (CPI): Synchronizes customer orders, inventory, and payment data in real time between Shopify and SAP S/4HANA.

API Management: Ensures security and governance of APIs through allowing only authorized applications to interact with SAP data.

Open Connectors: Offers a set of pre-built connectors that link Shopify to SAP, eliminating the need for custom development.

Integration Advisor: Reduces manual effort by simplifying the mappings from Shopify's order format to the SAP ERP structure.

Event Mesh: Provides real-time, event-driven notifications for order confirmation and shipping updates, increasing customer experience.

Each of these elements support the business by automating order handling, reducing manual data entry, and and ensuring all systems are updated correctly in real time.

Why choose SAP Integration Suite?

You may be wondering at this point -- why does it matter?

To answer that question, let's compare SAP Integration Suite to the competition and explore what sets it apart.

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applications such as S/4HANA, SuccessFactors, and Ariba reduces the level of customization required compared to third-party solutions.

2. Pre-Built Content & Accelerators: Thanks to these, users can expect more than 2,500 pre-built integration flows, reducing development time by following SAP best practices.

3. Hybrid & Multi-Cloud Support: Unlike some competitors that seem focused on the cloud-based ecosystem, the Integration Suite establishes seamless integrations across on-premise, private, and public clouds.

4. Event-Driven Architecture: Users enjoy real-time, event-driven integration that drives swifter and more effective business processes.

5. Security & Compliance: By ensuring enterprise-grade security, governance, and compliance native to SAP standards, this is one of the most trustworthy choices for regulated industries.

6. Unified API Management: More versatile than some of the alternatives like Boomi or Workato, the Suite unifies API-led, event-driven, and batch integrations in one place.

7. AI & Automation Capabilities: SAP AI Core and SAP Build Process Automation are leveraged to extend beyond standard integrations into intelligent automation.

Next Steps:

Ready to start your Digital Transformation journey? Visit our website at <u>titanconsulting.net</u> for more information and reach out to us through the 'Contact Us' button.

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1. Built-In Integration: Native integration with SAP

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