SAP
Business Technology Platform

Arne Speck, SAP
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What is SAP BTP?

SAP BTP is the platform that brings together application development, automation, data management, analytics and planning, integration, and AI capabilities into one unified environment optimized for SAP applications.

It is a comprehensive platform with:

• An intuitive, modern development environment for both, professional IT and citizen and business developers
• Built-in data models, integrations, workflows, app templates, and AI business services
• Self-service data discovery, modeling, planning, and analytics for business users in a governed environment
SAP BTP is the foundation for an integrated SAP portfolio
23k+ customers live on SAP BTP
Customer Example: Farys – Smart Water Platform

With the Smart Water Platform, everything is integrated. Our data is in one place. It unlocks intelligence, simplifies innovation, and lowers our total cost of ownership compared to our peers.

Inge Opredel
CIO Farys

Smart Water Platform
Farys

**Challenge:** Some of the key challenges the Water Sector is facing are the high operating cost, lack of market standardization & the absence of a common operating model.

**Solution:** In order to cope with the challenges, a new business model was set up. A sector collaboration between three water companies (Dr. Watergroup), FARYS and PDEA to create a cloud-based, future-proof Smart Meter and Energy Management system to support a joint mass rollout of the Smart water meters in with maximum synergy.

**Outcomes:**
- Sector collaboration resulted in a sector-wide Smart Water Meter Program including:
  - Unified and collaborative IT platform based on SAP Business Technology Platform (SAP BTP)
  - Joint working for standardization and bettertertmes
  - Collaborative project setup and fostering cross-company knowledge sharing
  - Lowering TCO
- Sector-wide Meter Operation Center (Sector MOD)
- New service designs and improved customer service
- Unlocking the potential of innovation technologies in a modern Smart Innovation Platform

- 20% Cost reduction potential thanks to efficiency in administration & efficiency in business operations
- 2.7 mio Number of Digital Watermeters to roll out and maintained on SAP BTP
- 1 day Yearly invoice lead time has been reduced from weeks to just 1 day

Source: SAP Innovation Award Initial Pitch Deck
SAP BTP
Unleash digital innovation across business functions
SAP BTP is *your platform to individualize your business processes*

### Secure and compliant
- Open and flexible
- Unified and simple

### Broad ecosystem
- Enterprise grade and scalable
- Business centric

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#### Business Technology Platform

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<tr>
<th>App Dev</th>
<th>Automation</th>
<th>Integration</th>
<th>Data and Analytics</th>
<th>AI</th>
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<tbody>
<tr>
<td>➔ Visual low-code/ no-code experience</td>
<td>➔ Workflow management</td>
<td>➔ Process integration</td>
<td>➔ Analytics and planning</td>
<td>➔ Pretrained AI models</td>
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<td>➔ Pro-code tooling</td>
<td>➔ Robotic process automation</td>
<td>➔ API-led integration</td>
<td>➔ Data management</td>
<td>➔ Generative AI and AI workload management</td>
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<td>➔ Digital experience</td>
<td>➔ Process monitoring and analytics</td>
<td>➔ Event-driven integration</td>
<td>➔ Operational database</td>
<td>➔ Business data and context</td>
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<td>➔ DevOps</td>
<td>➔ Automated document processing</td>
<td>➔ Hybrid integration</td>
<td>➔ Data warehouse and data lake</td>
<td>➔ Responsible AI</td>
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<td>➔ B2B integration</td>
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Application Development
Build and innovate
Build and innovate

• Achieve a **clean core** by developing **side-by-side extensions** with SAP Build Code on SAP BTP

• Optimize **developer efficiency** with generative AI, productivity tools, governance, and application lifecycle management for developers of all skill levels

• **Deliver personalized experiences** through integration and connectivity with SAP and third-party applications
The Challenge - Application Development Today

### App Definition and Development
- Database
- Streaming & Messaging
- Application Definition & Image Build
- Continuous Integration & Delivery

### Orchestration & Management
- Scheduling & Orchestration
- Coordination & Service Discovery
- Remote Procedure Call
- Service Proxy
- API Gateway
- Service Mesh

### Runtime
- Cloud Native Storage
- Container Runtime
- Cloud Native Network

### Provisioning
- Automation & Configuration
- Container Registry
- Security & Compliance
- Key Management

### Platform
- Certified Kubernetes - Distribution
- Certified Kubernetes - Hosted
- Certified Kubernetes - Installer
- PaaS/Container Service

### Observability and Analysis
- Monitoring
Master the building blocks
App development powered by generative AI

Simplified developer experience to drive productivity

Optimized for SAP software development

Enhanced fusion development between IT and business

Security and protection

Built-in integration with SAP and third-party systems

Trusted security for authentication, authorization, and data protection

Secure collaboration with low-code SAP Build solutions

Choice of programming language (Java, -Script) and IDE (built-in or Visual Studio Code)

Extensibility for SAP S/4HANA and other systems

App composability enabling developer flexibility

Interoperability with ABAP
For business and professional developers
With low-code and pro-code tools

**PRO-CODE**

**SAP BTP ABAP Environment**
Develop and run ABAP Cloud apps and extensions based on SAP HANA Cloud

**SAP Build Code**
Boost developer productivity using an integrated development environment (IDE), tools, and frameworks optimized for Java and JavaScript

**LOW-CODE**

**SAP Build Apps**
Create enterprise applications without writing code

**SAP Build Process Automation**
Automate processes and tasks with simple drag-and-drop and AI capabilities

**SAP Build Work Zone**
Design engaging business sites to get work done quickly across your enterprise applications
SAP Build solutions
Create enterprise apps, automate processes, and design business sites with drag-and-drop simplicity

Create apps
Automate processes
Design business sites

SAP Build Apps
SAP Build Process Automation
SAP Build Work Zone

Build Visually
Integrate Smoothly
Collaborate Effectively

SAP Business Technology Platform
Automation
Optimize and automate
Optimize and automate

• **Automate visually**
  Simplify automation with drag-and-drop and AI capabilities.

• **Integrate smoothly**
  Develop faster using built-in workflows, bots, and connectors for SAP and third-party systems.

• **Collaborate more securely**
  Enable fusion team development in a more secure and agile fashion.
SAP Build Process Automation

Hundreds of built-in automations | API complexity is hidden
Integration
Integrate everything to innovate
Integrate everything to innovate now

- **Integrate everything to accelerate innovation** with a single, robust solution for multiple integration modes and enterprise-grade capabilities.

- **Accelerate connectivity for faster time to value** with thousands of proven integrations built and maintained by SAP, while applying a systematic approach to integration that includes built-in support for best practices.

- **Connect everyone with automated processes** in real-time, providing situational awareness, scale, and high performance, regardless of organizational boundaries.
Quickly evolving hybrid landscapes

Hybrid Cloud
SaaS
Cloud ERP
SAP

Intelligent Enterprise
Machine Learning
M&A

Industry Cloud
B2B
EDA

Hybrid Landscapes
API Economy
Mobile
iPaaS

Non-SAP
New Business Models

B2C
B2G
Business Networks

Hybrid integrations
API-based and event-driven integrations
B2B and B2G integration
Low-code integration experience

Service composability
Security and governance
Monitoring and operations

Artificial Intelligence
Local Integrations
SAP Integration Suite
SAP’s hybrid integration platform for the Intelligent Enterprise

Capabilities within SAP Integration Suite
Integration Assessment
Define and govern your integration technology strategy

Cloud Integration
End-to-end process integration

API Management | Graph
Expose your data as APIs, manage the end-to-end lifecycle

SAP Integration Suite, advanced event mesh¹
Sense and respond to business events

Open Connectors
Accelerate connectivity to third-party applications

Integration Advisor | Trading Partner Management
Manage B2B scenarios and AI-based integration

Migration Assessment
Migrate and elevate integrations from SAP Process Orchestration software to the cloud

SAP Business Accelerator Hub
3,400+ prebuilt integrations | 3,900+ APIs | 600+ business events | 250+ connectors to SAP and third-party cloud apps

Integration Advisor
Trading Partner Management

B2B partners
SAP apps
Governments

SAP apps
SAP Concur
SAP Ariba
SAP Customer Experience
SAP S/4HANA
SAP SuccessFactors
SAP Fieldglass

SAP apps
Vendor-managed multi-cloud offering

Microsoft Azure
Google Cloud Platform
AWS
Alibaba Cloud

Edge Integration Cell
Next-generation integration runtime for local integrations

Microsoft AKS
SUSE Rancher
Red Hat OpenShift²
PostgreSQL, Redis

Microsoft AKS
Amazon EKS
Red Hat OpenShift²
PostgreSQL, Redis

And many more connectors . . .

UN/EDIFACT
ASC X12
Tradacoms
Odette
GS1 EANCOM
UN/EDIFACT
VDA EDIFACT
Odette EDIFACT
JAIF EDIFACT
cXML

Public

³ Private landscape

1) Optional separate license
2) Part of the road map, subject to change
3) Private landscape corresponds to on premise or private cloud
Data and Analytics
Give data purpose
SAP data and analytics

- ** Deliver semantically rich, trusted data** to every data consumer while keeping business context and logic intact.

- **Empower developers to build apps** that utilize generative AI, are context-aware, and connect to vital business data.

- **Connect finance, HR, operational, and strategic planning** with data and analytics on a single stack.
SAP Datasphere is the foundation for a business data fabric architecture

Business Data Fabric
Powered by
SAP Datasphere

- Self-service data access | Virtual data products
- Data discovery | Business content, data marketplace, recommendations
- Orchestration | Data transformation and data ops
- Processing and persistency | Warehousing, business semantics, (analytic/relational models), knowledge graph
- Data governance | Metadata management, catalog, lineage, privacy, data quality
- Data ingestion | Data replication, data federation, real-time data, application integration

Security
Access control
Availability

Trust Business-Critical Master Data Foundation with SAP Master Data Governance

SAP and non-SAP data
Applications
On-premises Data Warehouses
Cloud Data Warehouses and Lakehouses
Relational Databases
Unstructured/ Semi-structured Data
SAP data and analytics solutions

Planning and analytics

Extended planning and analytics

Take enterprise planning to the next level with an optimized, vertically integrated consumption layer for planning and analytics workloads.

- SAP Analytics Cloud

Data management and data warehousing

Business data fabric

Deliver an integrated, semantically rich data layer over underlying data landscapes to provide smooth and scalable access to data without duplication.

- SAP Dataspere
  - SAP Master Data Governance

Operational databases

Intelligent data applications

Build apps leveraging analytical capabilities (machine learning, graph, spatial), combining historical and real-time data.

- SAP HANA Cloud
Artificial Intelligence (AI)
Infuse AI into your SAP applications and extensions
Infuse AI into your SAP applications and extensions

With **SAP Business AI**, we build a system of intelligence with **three core principles:**

- **Relevant**
  The most relevant AI delivered in the context of your business processes

- **Reliable**
  Uniquely reliable AI trained on the industry's broadest business data sets

- **Responsible**
  AI built on leading ethics and data privacy standards
SAP Business AI initiative
Relevant. Reliable. Responsible.

Joule
A copilot that truly understands your business

Embedded AI capabilities
- Cloud ERP
- Human capital management
- Spend management and business network
- Customer relationship management
- SAP BTP

AI Foundation
on SAP BTP

AI ecosystem partnerships and investments
- Anthropic
- AWS
- Cohere
- Databricks
- DataRobot
- Google Cloud
- IBM
- Microsoft
AI is already a central, integrated capability of our enterprise applications and business technology, used by tens of thousands of our cloud customers.

*The listed examples are a subset of our complete portfolio.*
A comprehensive set of services for AI developers on SAP BTP

AI Foundation
on SAP BTP

AI services
- Document processing
- Recommendation
- Machine translation

Generative AI Management
- Tool set
- Trust and control
- Access

AI Workload Management
- Training
- Inference

Business Data and Context
- Vector engine
- Data management

Foundation Models
- Built by SAP
- Hosted
- Remote
- Fine-tuned

Lifecycle management
## Cloud services for SAP BTP

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<td>SAP Analytics Cloud</td>
<td>SAP AI Core</td>
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<td>SAP Build Work Zone</td>
<td>Workflow management</td>
<td>Cloud Integration</td>
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<td>SAP AI Launchpad</td>
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<td>SAP Build Code</td>
<td>Decisions and rules</td>
<td>API Management</td>
<td>Augmented analytics</td>
<td>SAP AI Business Services</td>
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<td>• SAP Business Application Studio</td>
<td>Robotic process automation bots</td>
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<td>• SAP Document Management service</td>
<td>SAP Task Center</td>
<td>Open Connectors</td>
<td>Document Information</td>
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### Discovery Center
- Actionable and guided missions
- Service catalog
- Best-practice enablement and learning content

### Ecosystem and Marketplace
- Integration packs
- Built-in industry and LoB content
- Business workflows and bots
- Business apps and third-party data

### Enterprise readiness
- Change and deployment management
- Technical ops automation
- Alerting
- Smooth integration option into existing application lifecycle management processes

### Enterprise security services
- Cloud identity services
- Risk and compliance
- Secure development

### Additional Resources
- SAP BTP Innobytes – Monthly innovation highlights

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Public
SAP BTP – Predefined business content

With **SAP BTP** you will not start from scratch, but with *predefined business content*.

- 230+ Task automations (bots)
- >13800 CDS views
- 85+ Live Processes for BUILD
- 100+ Business Process Templates for BUILD
- 120 decision and business rules
- SAP Cloud SDK
- Open connectors (aligned APIs) to 250 third-party products
- 3400+ integration scenarios
- Covering 600+ SAP application events
Getting Started with SAP Business Technology Platform
### Where to start? How SAP helps to deliver successful outcomes

<table>
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<th>SAP BTP Guidance Framework</th>
<th>SAP Discovery Center</th>
<th>SAP Learning</th>
<th>Onboarding resource center for SAP BTP</th>
<th>Free tier and trial</th>
<th>Road map</th>
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<tr>
<td>• Discover your compass for architected, implementing, and operating solutions on SAP BTP</td>
<td>• Realize the use cases as a mission</td>
<td>• Develop your SAP skills for free, anywhere, anytime, and at your own pace at learning.sap.com</td>
<td>• Obtain access to your services</td>
<td>• Find the best try-to-buy solution for your situation and role</td>
<td>• Learn how road maps from SAP support the journey to the future SAP product portfolio</td>
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</table>
| • Your central access point for:  
  – Decision guides  
  – Reference architectures  
  – Methodologies  
  – Best practices  
  – And more | • Be inspired by customer stories | • Be empowered with proper governance and structure | • Start developing – check out the mission catalog | • Start developing – check out the mission catalog | • Check out the latest road map for SAP BTP for upcoming platform innovations |
| • Explore reference architectures | • Access more than 100 SAP Learning Journeys for SAP BTP and more | • Highlight best practices and things to consider | • Be productive with a simple upgrade with free-tier service plans | • Be productive with a simple upgrade with free-tier service plans | • Access SAP Discovery Center |
| • Analyze cost with an estimator | • Start your journey with Discovering SAP Business Technology Platform | • Gain helpful assets and resources for self-service guidance | • Get support from SAP Community | • Get support from SAP Community | • Access SAP Discovery Center |
| • Gain more insights into road maps and service plans | | | | | |
Let's Get Started.

Connect. Automate. Innovate.
Thank you.

Contact information:

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