Feature Scope Description for SAP BTP, Cloud Foundry, ABAP, and Kyma Environments

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Content

1 About This Document

Read this document for a high-level summary of the core platform features available for the SAP BTP, Cloud Foundry, ABAP, and Kyma environments.

This document describes the **features** that are available in the SAP BTP, Cloud Foundry, ABAP, and Kyma environments. The availability of some of them may depend on your license agreement with SAP.

To illustrate integration with other SAP offerings, the **product documentation** on SAP Help Portal might include references to features that are not included with the SAP BTP, Cloud Foundry, ABAP, and Kyma environments. Features that are not included in this feature scope description might require a separate license.

> **i** Note
>
> This document does not include any information about:
>
> - **Beta features**. Beta features are described in the documentation on SAP Help Portal.
> - **Packages and pricing**. For more information, see SAP Extension Suite - Pricing and SAP Integration Suite - Pricing.

2   Platform Features

SAP BTP environments provide comprehensive application development services and capabilities that let you develop new cloud applications, extend existing on-premise and cloud solutions, and integrate applications in the cloud.

The multi-cloud foundation supports multiple environments, such as SAP BTP, Cloud Foundry, ABAP, and Kyma, as well as multiple different regions, and a broad choice of programming languages.

> **i Note**
>
> Features of services that are separately licensed are described in the service-specific feature scope descriptions linked from the service pages in the *SAP Discovery Center - Service Catalog*.
>
> For an overview of all available services and their features, see *SAP Discovery Center - Service Catalog*.

The SAP BTP, Cloud Foundry, ABAP, and Kyma environments come with a set of developer and administration tools that enable you to use the following features:

2.1   Account Administration

Use different user interfaces to operate your accounts.

Account Administration

Feature		Description
Manage your accounts using different user interfaces.	Work with the web-based user interface	Perform account operations using the web-based administration user interface.
	Work with the command-line tool	Perform account operations using the command-line interface.
	Work with APIs	Manage, monitor, and automate account operations using REST APIs.

Feature	Description	
Set up and manage your account model.	**Manage with directories and subaccounts**	Use subaccounts to deploy applications, use services, and manage your subscriptions. Structure your global account by subaccounts according to organizational and project requirements. Optionally, organize subaccounts into directories to suit technical and business needs.
	Manage deployments across different regions	Choose between different infrastructure providers and regions when creating new subaccounts.
	Organize and filter directories and subaccounts	Label or tag your directories and subaccounts using custom properties according to your own business and technical needs.
Manage entitlements and quotas.	**Manage entitlements and quota**	Manage the assignments of product entitlements and quotas from your global account to any of your directories and subaccounts.
Manage remote resources.	**Manage service provider resources**	Connect to provider accounts of a non-SAP cloud vendor and consume remote service resources that you already own, and that are supported.
Manage users.	**Manage users on global account, directory, and subaccount level**	Add users as account members and manage their authorizations.
Monitor usage information and costs.	**Monitor usage and consumption costs**	Gather, store, and make usage information available for all services and applications in all regions in a cloud deployment, for the purpose of central analysis, reporting, and license auditing.
	View usage analytics	Explore, compare, and analyze usage information for the services and applications that are available in your global accounts, directories, and subaccounts.
	Work with APIs	Generate reports based on the resource and cost consumption within your accounts using REST APIs.
Manage environments.	**Provision environments**	Manage the provisioning of environment instances and tenants, such as a Cloud Foundry org, in a subaccount.

Feature	Description	
Manage application subscriptions.	**Subscribe to applications**	Subscribe your subaccounts to multitenant applications that are provided by SAP or developed by your organization and hosted in your provider account.

2.2   Service Management

Manage services and register different platforms.

Service Management

Feature	Description	
Manage environments, service instances, service brokers, service bindings, service offerings, and service plans.	Manage platforms	Register your platform and enable it to natively consume SAP BTP services.
	Manage service instances	Use service instances to instantiate the SAP BTP service offerings and enable their functionalities.
	Manage service bindings	Use service bindings to get access details for an existing service instance with which you are working.
	Service discovery	List all SAP BTP service offerings available for consumption in your account.
	Runtime instance management	Provision and manage service instances at runtime, using the SAP Cloud Service Management service API groups.

2.3 Connectivity, Extensibility, Integration

Facilitate integration with on-premise systems running software from SAP and other vendors.

Connectivitiy, Extensibility, Integration

Feature	Description	
Connectivity between cloud applications and on-premise systems.	**Access on-premise systems**	Easier, faster deployment of hybrid solutions compared to traditional reverse proxy approaches with no firewall configuration changes.
	Choose from multiple supported protocols	Access HTTP and RFC protocols for cloud to on-premise communication and JDBC/ODBC for communication with cloud databases.
	Access cloud databases via JDBC/ODBC	Access your cloud databases as if they're running locally in your network, using your existing database or replication tools.
	Propagate cloud user identity	Enable users to log on to on-premise systems without providing a password, by forwarding their logged-on identity from the cloud.

Feature	Description	
Connect to SAP solutions.	Consume SAP S/4HANA Cloud APIs	Allow applications running in Cloud Foundry and Kyma environments to consume SAP S/4HANA Cloud APIs.
	Enable the Consumption of SAP S/4HANA Cloud Events	Connect SAP Enterprise Messaging and the SAP S/4HANA Cloud tenant so that SAP S/4HANA Cloud events can be produced and then consumed by applications running in the Cloud Foundry and Kyma environments.
	Consume SAP SuccessFactors HXM Suite OData API	Allow applications running in the Cloud Foundry and Kyma environments to consume SAP SuccessFactors APIs.
	Consume APIs of SAP Customer Experience Products	Allow applications running in the Kyma environment to consume SAP Commerce Cloud, SAP Field Service Management, and SAP Cloud for Customer APIs.
	Register SAP solution systems	Register SAP systems of type SAP S/4HANA Cloud, SAP SuccessFactors, SAP Commerce Cloud, SAP Cloud for Customer, and SAP Field Service Management using integration tokens.
	Add different SAP systems to a formation	Assign one or more SAP systems of different SAP solutions to a formation. For SAP systems of type SAP Commerce Cloud, SAP Cloud for Customer, and SAP Field Service Management, enable the access to the APIs of the corresponding solution. For SAP systems of type SAP S/4HANA Cloud and SAP SuccessFactors, and a formation using Cloud Foundry or Kyma environment, assign the required entitlements and creating a service instance to be able to consume the respective APIs.

> i Note
>
> For additional and separately licensed integration offerings, see *SAP Discovery Center - Service Catalog*.

2.4 Security

Support the security policies of your organization.

Security

Feature		Description
Manage application authorizations and trusted connections to identity providers.	Use a default identity provider	Enable user management for your applications using a pre-configured default identity provider.
	Use an external identity provider	Enable customized user management for your applications using an external identity provider.
	Develop applications with role-based access.	Grant users access to your applications based on roles.
	Manage authorizations for users	Define customized application roles based on standard roles, aggregate them into role collections, and assign them to users.
	Manage authorizations for applications	Using authorization models, enable applications to communicate with other applications and services consumed by these applications.
	Connect to SAP BTP using TLS	Connect to SAP BTP using HTTP clients that support Transport Layer Security (TLS) version 1.2 or higher.
Retrieve the audit logs for your subaccount.	Audit Log Retrieval API	The audit log retrieval API allows you to retrieve the audit logs for your subaccount. It provides the audit log results as a collection of JSON entities.
	Audit Log Viewer	The SAP Audit Log Viewer displays the audit logs for your subaccount, produced by SAP applications and services you've subscribed to.

Feature	Description	
Scan business documents uploaded by your custom-developed apps for malware.	Reduce malware in your environment	Check your application and storage for malware. Integrate this service with your custom-developed apps running on Cloud Foundry.
	Help meet compliance requirements	Scan automatically for malware on upload and download of business documents. When your apps upload business documents, your apps can call the SAP Malware Scanning service to check for viruses or other malware.

> i Note
>
> For additional and separately licensed security offerings, see *SAP Discovery Center - Service Catalog*.

2.5 Runtimes

Build applications using different runtimes, technologies, and tools.

> i Note
>
> Most of the runtimes listed in the following table are separately licensed, that is, they are not included in the overall SAP BTP contract. To learn more about the pricing options for these runtimes, see *SAP Discovery Center - Service Catalog*.

Runtimes

Feature	Description	
Develop applications and extensions and transform custom code to the cloud. **i Note** Separately licensed	Develop ABAP applications in the cloud	Use the ABAP RESTful Application Programming Model with its data modelling capabilities based on SAP HANA to develop SAP Fiori applications and web services in the cloud. Access a variety of SAP BTP services to implement innovative use cases.
	Extend SAP and non-SAP applications	Leverage the SAP BTP connectivity infrastructure to extend SAP and non-SAP applications running on premise and in the cloud.
	Utilize a modern development toolset	Use Eclipse-based ABAP Development Tools (ADT) as an environment for your ABAP development projects.
	Manage the code lifecycle	Make use of a default integration with Git to execute lifecycle management activities.
	Migrate custom code to the cloud	Leverage a comprehensive set of tools to analyze and transform your custom ABAP assets to the cloud.
Develop and run applications and extensions using Cloud Foundry. **i Note** Separately licensed	Develop polyglot applications	Build on open standards with SAP Java, Node.js, and Python buildpacks or bring your own language with community buildpacks for PHP, Ruby, Go.
	Manage the lifecycle of applications	Start, stop, scale, and configure distributed cloud applications using standard Cloud Foundry tools, our web-based administration user interface for SAP BTP, and dev-ops capabilities.
	Optimize development and operations	Use the rich set of SAP BTP services including messaging, persistence, and many other capabilities.
	Use the application programming model	Use programming languages, libraries, and APIs tailored for full-stack application development.
	Manage Cloud Foundry orgs and spaces	Create and delete Cloud Foundry orgs and spaces and add members. Create, assign, and change space quota plans.

Feature		Description
	Scale your applications automatically	Automatically increase or decrease the number of application instances to meet the changing demands of application resources.
	Make your scaling resource-specific	Scale your applications on the basis of any standard metric type, such as memory consumed, CPU, response time, or throughput.
	Define custom metrics	Scale your applications by defining custom metrics that match their requirements.
	Manage your costs effectively	Only consume and pay for the compute resources, which your applications require.
Develop and run HTML5 applications	Zero Down-Time Enablement	The HTML5 applications are decoupled from the consuming application router. This enables updating the static content of the HTML5 applications without restarting the application router in SAP BTP.
	Versioning and Authorization	Exploration of HTML5 application content by version. Access control that is based on private or public authorization. When the HTML5 application is public, the service enables sharing this content with consuming application routers from different spaces.
	Availability and Performance	During runtime, the HTML5 application content is cached and optimized to provide high performance with minimal network load. The service provides several instances for a runtime to serve a high load of application requests.

Feature	Description	
Develop containerized applications and extensions on Kubernetes using Kyma. **i Note** Separately licensed	Microservice and serverless extensions	Use the Kubernetes-based capablities provided by SAP BTP and the project "Kyma" to extend SAP solutions with cloud-native microservices and serverless Functions.
	Event-driven architecture	Build API- and event-based extensions which can be triggered on demand. Allow smooth event processing and delivery.
	Fully managed environment	Use the benefits of fully managed service mesh and connectivity capabilities based on open-source components and open standards.
	Consumption-based model	The consumption-based model enables you to scale the runtime according to your business needs.
Develop extensions using a serverless architecture. **i Note** Separately licensed	Holistic user experience	The Extension Center business application provides a full-fledged user interface to build and manage your serverless extensions.
	Fully-managed environment	Run your cloud-native extensions in a fully-managed, serverless environment decoupled from your digital core.
	Extend business logic	Create serverless functions that can be triggered on demand as defined in your extension.
	Connected systems	Connect your SAP systems to access highly available, scalable, and resilient OData APIs.

2.6 Services

The following services are part of the overall SAP BTP contract.

Services

Feature		Description
Control rollout of features	Switch a functionality on and off	Using the Boolean feature flags, you can receive either true or false when evaluating the flag.
	Use different variations	Using the String feature flags, you can receive have two or more text variations when evaluating the flag.
	Use a direct delivery	You can activate a certain functionality for a dedicated set of values of the identifier query parameter that your application sends to the SAP Feature Flags service when the feature flag is evaluated.
	Use a percentage delivery	You can distribute the variations you have defined among your tenants without targeting specific ones.
	Export and import flags	You can export all the flags from one service instance and import them in another, keeping all the settings.
	Benefit from multitenancy support	Use this service in tenant-aware (multitenant) applications. Run them on a shared compute unit that can be used by multiple consumers (tenants).

> i Note
>
> Services that are separately licensed are described in the service-specific feature scope descriptions linked from the service pages in the *SAP Discovery Center - Service Catalog*.
>
> For an overview of all available services and their features, see *SAP Discovery Center - Service Catalog*.

3 Product Availability

This section describes the product availability aspects.

Availability Aspect	Description
Platform availability	• Latency: network latency depends on various factors, no precise information can be provided on a general level • Resilience: system can regain stable state after disruption • Scalability: system responds to peaks in resource requirements For more information on availability, see ▌ *SAP Trust Center* ❯ *Agreements* ❯ *Cloud Services Agreements* ❯ *Service Level Agreement for SAP Cloud Services* ▐.
Regions	SAP BTP is hosted in different regions. For information on the availability of SAP BTP services according to region and infrastructure provider, see *SAP Discovery Center*.
Infrastructures	SAP BTP runs on several underlying *Infrastructure-as-a-Service* technologies and regions owned by our partner infrastructure providers, including Amazon Web Services, Microsoft Azure, Google Cloud, and Alibaba Cloud.
Environments	SAP BTP offers the following environments: • Cloud Foundry • ABAP • Kyma For more information, see Runtimes [page 10].
Languages	The central web-based administration user interface for SAP BTP is available in the following languages: • Chinese • English • Japanese • Korean For language availability of other user interfaces refer to the respective detailed feature scope description. The related documentation on SAP Help Portal is available in the following languages: • Chinese • English • Japanese

Availability Aspect	Description
Accessibility	SAP BTP provides accessibility support in its administration and development tools, and the customer documentation. This includes: • High-contrast black theme for the administration UI • Texts and information • UI elements via attributes and element IDs • Orientation and navigation throughout the UI • User interaction

> ! Restriction
>
> Some customer contracts include EU access, which means that we only use European subprocessors to access personal data in cloud services, such as when we provide support. We currently cannot guarantee EU access in the Cloud Foundry environment.
>
> If your contract includes EU access, we cannot move services to the Cloud Foundry environment without changing your contract.

> i Note
>
> Further restrictions may apply when using the product on an infrastructure hosted by a third-party provider.

For more information, see *SAP Trust Center*.

4   Compliance and Security

SAP BTP environments ensure cloud security at multiple levels.

> **i Note**
>
> These compliance and security standards apply to regions operated by SAP. For more information about the security compliance for regions operated by an SAP partner, contact your operator.

Certificates and Reports

SAP BTP environments regularly undergo audits and reviews of its policies and controls.

- For the complete list of compliance and security standards that the cloud platform is compliant with, see *SAP Trust Center* > *Compliance* and search for *SAP Business Technology Platform ISO*.
- For the complete list of Service Organizational Control (SOC) audit reports available for the cloud platform, see *SAP Trust Center* > *Compliance* and search for *SAP Business Technology Platform SOC*.

Data Protection

SAP BTP environments follow SAP's global data protection and privacy guidelines. For more information on the guidelines, see *SAP Trust Center* > *Privacy*.

To access the Personal Data Processing policy for your region, see *SAP Trust Center* > *Agreements* > *Data processing agreement*.

5   Service Level Agreement

The Service Level Agreement (SLA) is a contract between SAP and its customers that forms the basis of your contractual relationship with SAP when referenced in specific order forms.

> **i Note**
>
> This Service Level Agreement covers cloud service offerings that are operated by SAP. For more information about the service level agreement for cloud service offerings operated by an SAP partner, contact your operator.

- The **order form** is the ordering document to subscribe to cloud services from SAP. It defines the commercial terms and lays out the agreement structure. The order form also incorporates several other documents that relate to the SLA.
  See Sample Order Form .
- The **Service Level Agreement for SAP Cloud Services** applies to any cloud service on the SAP price list, defining downtime, credits, update windows, and others.
  See Service Level Agreement for SAP Cloud Services .
- The **SAP Business Technology Platform Supplement** overrides the Service Level Agreement for SAP Cloud Services in case of deviations and specifies the SLA for SAP Business Technology Platform in general.
  For more information, see SAP Business Technology Platform Supplement .
- The **SAP Business Technology Platform Service Description Guide** provides information on cloud services from SAP, including any deviations to the SLA for a specific service.
  For more information, see SAP Business Technology Platform Service Description Guide .

Additionally, the **General Terms and Conditions for SAP Cloud Services** warrants the SLA and provides the available remedy if SAP fails to meet its SLA. For more information, see General Terms and Conditions for SAP Cloud Services .

Maintenance Windows and Major Upgrade Windows

The maintenance and major upgrade windows are defined in the Service Level Agreement for SAP Cloud Services. SAP may update these windows from time to time in accordance with the Agreement.

The following windows apply:

Maintenance Windows				Major Upgrade Windows				
MENA	APJ	Europe	Americas	Frequency	MENA	APJ	Europe	Americas

Feature Scope Description for SAP BTP, Cloud Foundry, ABAP, and Kyma Environments
Service Level Agreement

Maintenance Windows					Major Upgrade Windows		
Zero down-time	Zero down-time	Zero down-time	Zero down-time	Up to 4 times per year	FRI 2 pm (UTC) (4 hrs)	FRI 10 pm (UTC) (4 hrs)	SAT 4 am (UTC) (4 hrs)

For the latest information, see Maintenance Windows and Major Upgrade Windows for SAP Cloud Services and search for your service.

6   Browser Support

Overview of the browser support

For UIs of the platform itself, such as the web-based administration user interface for SAP BTP, the following browsers are supported on Microsoft Windows PCs and, where mentioned below, on macOS:

Browser	Versions
Google Chrome	Latest version
Mozilla Firefox	Extended Support Release (ESR) and latest version
Microsoft Edge (chromium-based)	Latest Current Branch for Business
Safari	Latest two versions (for macOS only)

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