SAP BTP Security and Compliance
Overview
May 2023
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SAP BTP is the foundation of the Intelligent Sustainable Enterprise

End-to-end business processes

Ecosystem solutions

Spend management and business network

Industry-specific and sustainable

Customer relationship management

Cloud ERP

Business Technology Platform

Create personalized experiences that instantly work with SAP applications

Build faster with business context to meet change with agility

Run with confidence on a trusted, enterprise-grade platform

App Dev
Build and innovate

Automation
Optimize and automate

Integration
Connect and simplify

Data and Analytics
Give data purpose

AI
Infuse intelligence
Agenda

01 Security and Compliance

02 Access Control and Authentication

03 Data Protection and Encryption

04 Compliance with Industry Standards and Regulations

05 Incident Response and Disaster Recovery

06 Best Practices for Secure Application Development

07 Security Monitoring and Threat Detection
Security and Compliance Overview

- Access Control
- Encryption
- Identity Management
- Vulnerability Scanning and Penetration Testing
- Logging and Monitoring
- Compliance Management
- Disaster Recovery and Business Continuity
- Incident Response
Access Control and Authentication

SAP Cloud Identity Services

- Authentication
- Token Service
- Central User Store
- Identity Lifecycle Management
- Authorization Management

Corporate Identity Provider
- Microsoft ADFS / Azure
- 3rd party IdP

On-Premise User Store
- AS ABAP
- MS Active Directory
- LDAP

SAP Business Applications

You can find more information about Identity Authentication here:

- SAP Community
- SAP Discovery Center IAS
- SAP Discovery Center IPS
- SAP Discovery Center AMS
Data Protection and Encryption

SAP BTP uses encrypted communication channels based on HTTPS/TLS, supporting TLS version 1.2 or higher. It is possible to opt-in for the use of TLS 1.3 in the Custom Domain Manager. This allows the use of TLS1.3 with Applications running on SAP BTP.


SAP BTP Services use the storage encryption of persistence services. They often use the IaaS layer underlying the SAP BTP. This is configured in the respective IaaS accounts used by SAP BTP. Encrypted backups are stored in a persistence using a strong encryption algorithm. All these keys are stored in a key management service provided by the underlying IaaS layer.

Data Encryption Strategy (SAP Help Portal)
Compliance with Industry Standards and Regulations

SAP BTP services and the underlying infrastructure hold various certifications and attestations. The BTP services attestations and certifications can be found under the naming of "SAP Business Technologie Platform" in the SAP Trust Center.

SAP BTP runs in secure and certified environments
- World-class data centers
- Advanced network security
- Reliable data backup
- Built-in compliance, integrity, and confidentiality

Cloud Services with 99.7% availability

For more details, see
- SAP Data Center
- SAP Trust Center
- Cloud Availability section in SAP for Me

Certifications & Attestations

- ISO 27001, ISO 27017, ISO 27018 - Information Security Management System
- ISO 22301 - Business Continuity Management System
- SOC 1 Type 2, SOC 2 Type 2
- C5 Type 2 (BSI Germany)
- EU Cloud Code of Conduct
- CSA STAR
- TISAX (Trusted Information Security Assessment Exchange)
Incident Response and Disaster Recovery

- High Availability: Multi-AZ enabled Platform Services
- Standard DR: Restore from offsite backups

- Reduced planned downtimes
- Harmonized maintenance windows across SAP Cloud products

- Meaningful outage communication
- Real time status reporting

- Canary approach: ‘Eat your own dog food’.
- Pro-active & re-active monitoring
- 24/7 Operations & Incident Management, RCA & Improvements

* SAP Document Management, Launchpad Service and Cloud Portal
Best Practices for Secure Application Development

• **SAP Cloud Application Programming Model (CAP)** which includes build-in security functionalities

• SAP BTP offers various services and APIs to develop secure software applications. See [SAP BTP on SAP API Business Hub](https://www.sap.com)

• [SAP BTP Security Recommendations](https://www.sap.com) for a securely configured platform
Security recommendations
Setting up SAP S/4HANA cloud securely

Protect your SAP S/4HANA Cloud
Setting up SAP S/4HANA Cloud securely

Protect Your SAP S/4HANA Cloud

Security has always been an important element for the complete product lifecycle of all SAP products, including product development, planning, and quality assurance. As a Software-as-a-Service (SaaS) product, SAP S/4HANA Cloud takes care of infrastructure-level security like networks, operating systems and patch management. Security aspects that might require business decisions are managed by the customer. A typical example is user and authorization management. In some areas, SAP delivers secure default settings which can be modified to meet specific business needs (e.g., for system integrations).

SAP takes care of some of the security focus areas, while others have to be handled by you. Below, you can find an overview of these areas and responsibilities.

The section Security Recommendations provides a more detailed overview of security configurations with their defaults and recommended values.

<table>
<thead>
<tr>
<th>Security Process Area</th>
<th>Customer Responsibility</th>
<th>SAP Responsibility</th>
<th>Related Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data storage</td>
<td>N/A</td>
<td>Data encryption, backup</td>
<td>Secure Storage</td>
</tr>
<tr>
<td>Network security</td>
<td>Define communication to external systems</td>
<td>Network infrastructure, firewalls, network segmentation etc.</td>
<td>Server Communication Security</td>
</tr>
<tr>
<td>Work security</td>
<td>Define additional trusted sites if needed (new data centers)</td>
<td>Deliver secure default settings for protecting the end user ID</td>
<td>Private Communication Security</td>
</tr>
<tr>
<td>Secure authentication</td>
<td>Define password policies and MFA requirements, Configure corporate identity provider if required</td>
<td>Provide a default identity provider</td>
<td>Secure Authentication</td>
</tr>
<tr>
<td>User administration and authorizations</td>
<td>Implement automation concept for business users</td>
<td>N/A</td>
<td>Authentication and User Concept in SAP S/4HANA Cloud</td>
</tr>
<tr>
<td>Application-specific virus scan</td>
<td>N/A</td>
<td>Run virus scans</td>
<td>Virus Scanning</td>
</tr>
<tr>
<td>Security patching</td>
<td>Adjust authorization concept after functional updates</td>
<td>Continuous vulnerability scans, Security patches, Security enhancements of business functionality</td>
<td>Manage Business Role Changes after Update</td>
</tr>
</tbody>
</table>

Security Monitoring and Threat Detection

- Threat Intelligence Program
- Continuous monitoring of system and application logs
- Network traffic analysis
- Intrusion detection systems
- Proactive monitoring and response to potential threats
- Event, incident, threat, and vulnerability management
- Security information and event management (SIEM)
- 24/7 general security monitoring, including escalation procedures
- Security incident tracking and resolution by security specialists

See: Cloud Services: Reference Guide
Conclusion

I. The SAP Business Technology Platform provides a comprehensive set of security and compliance features to ensure the security of customer applications and data.

II. Secure application development on the platform is supported through best practices for securing application user accounts and data.

III. Customers can review the platform's security features and controls and use the recommended best practices in configuring their applications for optimal security.

More Information on: My Trust Center & SAP for Me
Thank you.

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