LAYER SEVEN SECURITY

SECURITY FOR SAP RISE AND CLOUD ERP

SECURITY SERVICES AND SOLUTIONS FOR SAP RISE / CLOUD ERP CUSTOMERS

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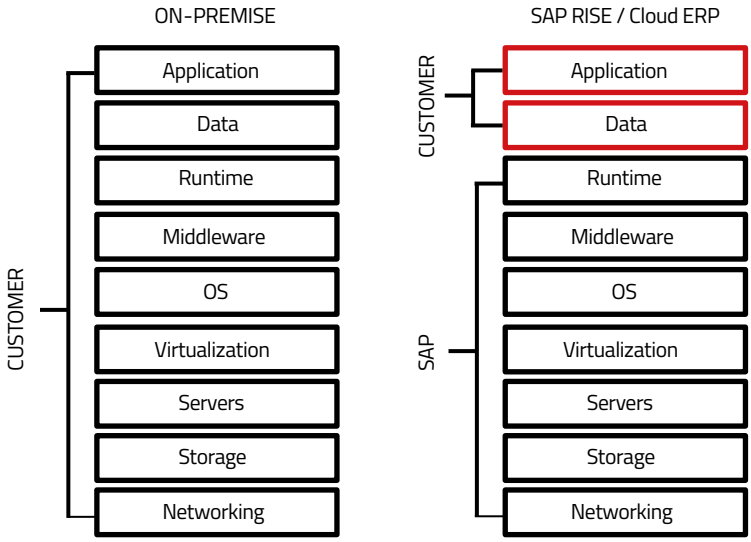
INTRODUCTION

In contrast to traditional on-premise SAP landscapes, the responsibilities for security in SAP RISE / Cloud ERP are shared between SAP and customers. SAP is responsible for security at the hyperscaler and network level, as well as security for databases and servers. Customers are responsible for securing the application and data layer. However, customers can purchase optional solutions and Cloud Application Services (CAS) from SAP that are not included in standard agreements for additional support in these areas.



Source: SAP

This document compares security solutions and services available from SAP against the capabilities of the Cybersecurity Extension for SAP (CES). CES is a software addon for SAP solutions and certified for SAP S/4HANA. CES delivers more coverage at lower cost than the equivalent SAP solutions and services and provides a unified alternative to multiple SAP RISE / Cloud ERP offerings.

ACCESS RISK ANALYSIS

Customers are responsible for managing user permissions and ensuring access to critical roles and authorizations is restricted and compliant with the principle of the Segregation of Duties (SoD). SAP offers an optional Cloud Application Service to detect critical access and SoD risks in customer S/4HANA systems using the SAP GRC ruleset. The Cybersecurity Extension for SAP also performs critical access and SoD checks for S/4HANA using a ruleset benchmarked against SAP GRC.

ACCESS RISK ANALYSIS	SAP RISE / CLOUD ERP STANDARD	SAP RISE / CLOUD ERP OPTIONAL CAS/ SOLUTION[1]	CYBERSECURITY EXTENSION FOR SAP
CRITICAL ACCESS & SOD CHECKS FOR S/4HANA	NO	YES	YES
SCANNING INTERVAL	NONE	ON DEMAND	DAILY
DETAILED REPORTING INCLUDING RISK ANALYSIS & RECOMMENDATIONS	NO	YES	YES
REPORT SCHEDULING INCLUDING AUTOMATIC EMAIL DISTRIBUTION	NO	NO	YES
DASHBOARD & TREND ANALYSIS INTEGRATION	NO	NO	YES
RULESET CUSTOMIZATION	NO	NO	YES
SUPPORT FOR USER EXCLUSIONS	NO	NO	YES

[1] Advanced Security & Compliance CAS (Segregation of Duties Check)

VULNERABILITY & COMPLIANCE MANAGEMENT

Customers are responsible for the secure configuration of applications in SAP RISE / Cloud ERP. SAP offers an additional Cloud Application Service not included in stand+ ard RISE services to perform security checks for ABAP and HANA systems using SAP Solution Manager. The Cybersecurity Extension for SAP performs more extensive security checks than the CAS and enables customers to detect compliance gaps with security frameworks. This includes compliance monitoring for security settings mandated by SAP Enterprise Cloud Services (ECS) for SAP RISE / Cloud ERP solutions.

VULNERABILITY & COMPLIANCE MANAGEMENT	SAP RISE / CLOUD ERP STANDARD	SAP RISE / CLOUD ERP OPTIONAL CAS/ SOLUTION[1]	CYBERSECURITY EXTENSION FOR SAP
SUPPORT FOR ABAP	NO	YES	YES
SUPPORT FOR HANA	NO	YES	DAILY
SUPPORT FOR JAVA	NO	NO	YES
SUPPORT FOR ASE DATABASE	NO	NO	YES
SUPPORT FOR LINUX OS	NO	NO	YES
QUANTITY OF SECURITY CHECKS	NONE	LOW	HIGH[2]
AUTOMATED COMPLIANCE GAP ASSESSMENTS FOR SECURITY FRAMEWORKS INCLUDING CUSTOM SECURITY POLICIES	NO	NO	YES[3]
COMPLIANCE MONITORING FOR SECURITY SETTINGS MANDATED BY SAP ENTERPRISE CLOUD SERVICES (ECS) FOR SAP RISE / CLOUD ERP SOLUTIONS	NO	NO	YES
REPORT SCHEDULING INCLUDING AUTOMATIC EMAIL DISTRIBUTION	NO	NO	YES
DASHBOARD & TREND ANALYSIS INTEGRATION	NO	NO	YES
ALERT INTEGRATION	NO	YES	YES
INTEGRATION WITH CUSTOM CODE SECURITY SCANNING	NO	NO	YES
SECURITY CHECK CUSTOMIZATION INCLUDING EXCLUSIONS FOR SYSTEMS & USERS	NO	NO	YES
REMEDIATION MANAGEMENT	NO	YES	YES

1 Advanced Security & Compliance CAS (Application Security Monitoring)
2 4000+ system vulnerability checks in Cybersecurity Extension for SAP v5.1
3. Supported frameworks include CIS, NIST, GDPR, ISO-27000, PCI-DSS, SOX, SAP S/4HANA Security Guide, SAP Security Baseline, and SAP RISE / Cloud ERP

CUSTOM CODE SECURITY

Developing and maintaining secure custom applications is the responsibility of customers in SAP RISE / Cloud ERP. This includes custom developments adapted and migrated from SAP ECC to SAP S/4HANA. Customers can license SAP Code Vulnerability Analyzer (CVA) to detect vulnerabilities in custom ABAP programs. CVA is not included in standard RISE solutions. The Cybersecurity Extension for SAP includes a higher number of test cases than CVA and supports security scanning for custom SAPUI5 applications.

CUSTOM CODE SECURITY	SAP RISE / CLOUD ERP STANDARD	SAP RISE / CLOUD ERP OPTIONAL CAS/ SOLUTION[1]	CYBERSECURITY EXTENSION FOR SAP
SUPPORT FOR ABAP CODE	NO	YES	YES
SUPPORT FOR SAPUI5 CODE	NO	NO	DAILY
QUANTITY OF SECURITY CODE CHECKS	NONE	70+[2]	270+[3]
SUPPORT FOR CENTRALIZED SCANNING	NO	YES	YES
INTEGRATION WITH ABAP TEST COCKPIT AND SAP CODE INSPECTOR	NO	YES	YES
REPORT SCHEDULING INCLUDING AUTOMATIC EMAIL DISTRIBUTION	NO	NO	YES
EXTERNAL CALL ANALYSIS FOR CUSTOM PROGRAMS	NO	NO	YES[3]
DASHBOARD & TREND ANALYSIS INTEGRATION	NO	NO	YES
SUPPORT FOR EXCLUSIONS	NO	YES	YES

[1] SAP Code Vulnerability Analyzer (SAP CVA)
[2] SAP CVA for SAP Basis 757 SP02
[3] Cybersecurity Extension for SAP v5.1

SECURITY PATCHING

Customers are responsible for identifying and applying application-specific security notes and testing for security notes in SAP RISE / Cloud ERP. SAP offers an optional Cloud Application Service for implementing application-level security notes. However, customers remain responsible for implementing notes with manual corrections and testing security notes. The Cybersecurity Extension for SAP automates the discovery of security notes and supports change impact analysis for test planning.

SECURITY PATCHING	SAP RISE / CLOUD ERP STANDARD	SAP RISE / CLOUD ERP OPTIONAL CAS/ SOLUTION[1]	CYBERSECURITY EXTENSION FOR SAP
CALCULATION OF RELEVANT SECURITY NOTES	YES	-	YES
INTEGRATION WITH ABAP TEST COCKPIT AND SAP CODE INSPECTOR	NO	NO	YES
AUTOMATIC CHECK FOR IMPLEMENTATION STATUS OF SECURITY NOTES TO REMOVE INSTALLED NOTES FROM CALCULATED RESULTS	YES	-	YES
IMPLEMENTATION OF APPLICATION-LEVEL SECURITY NOTES	NO	YES	NO
IMPLEMENTATION OF SECURITY NOTES WITH MANUAL CORRECTIONS	NO	NO	NO
TESTING FOR SECURITY NOTES	NO	NO	NO
REPORT SCHEDULING INCLUDING AUTOMATIC EMAIL DISTRIBUTION	NO	NO	YES
DASHBOARD & TREND ANALYSIS INTEGRATION	NO	NO	YES

[1] Application Security Updates CAS

THREAT DETECTION & RESPONSE

Monitoring and investigating security incidents in SAP applications is the responsi+ bility of customers in SAP RISE / Cloud ERP. SAP offers managed services using SAP Enterprise Threat Detection (ETD) cloud edition as an optional CAS. The services exclude monitoring of HANA logs. ETD must be licensed by the customer to use the services. The Cybersecurity Extension for SAP includes more detection patterns than ETD and supports monitoring of HANA logs.

THREAT DETECTION & RESPONSE	SAP RISE / CLOUD ERP STANDARD	SAP RISE / CLOUD ERP OPTIONAL CAS/ SOLUTION[1]	CYBERSECURITY EXTENSION FOR SAP
SAP ENTERPRISE THREAT DETECTION LICENSE REQUIRED	NO	YES	NO
SUPPORT FOR ABAP	NO	YES	YES
SUPPORT FOR HANA	NO	YES	YES
SUPPORT FOR JAVA	NO	YES	YES
SUPPORT FOR ASE DATABASE	NO	NO	YES
SUPPORT FOR LINUX OS	NO	NO	YES
SUPPORT FOR SAPROUTER & SAP WEB DISPATCHER	NO	NO	YES
QUANTITY OF PATTERNS	NONE	45+	1000+[2]
DETECTION OF ACTIVELY EXPLOITED VULNERABILITIES	NO	YES	YES
FORENSIC ANALYSIS OF SAP LOGS	NO	YES	YES
CUSTOM THREAT PATTERNS AND ALARMS	NO	YES	YES
SIEM INTEGRATION	NO	YES	YES
ALERT TUNING INCLUDING EXCLUSIONS	NO	YES	YES
INCIDENT RESPONSE	NO	YES	YES
REPORT SCHEDULING INCLUDING AUTOMATIC EMAIL DISTRIBUTION	NO	NO	YES
DASHBOARD INTEGRATION	NO	YES[3]	YES
TREND ANALYSIS INTEGRATION	NO	NO	YES

[1] SAP Enterprise Threat Detection Cloud Edition & Advanced Security & Compliance CAS (SAP ETD)
[2] Cybersecurity Extension for SAP v5.1
[3] SAP Cloud Analytics LOB Business Content Package

SECURITY DASHBOARD

Standard RISE solutions and services do not include a dashboard for monitoring security KPIs. RISE customers can subscribe to a Cybersecurity dashboard available in SAP Analytics Cloud. However, the data sources for the dashboard include SAP ETD, SAP Focused Run and SAP Risk Management. The solutions must be licensed from SAP to use the dashboard. The Cybersecurity Extension for SAP includes an interactive dashboard, trend analysis and threat map for monitoring security KPIs.

SECURITY DASHBOARD	SAP RISE / CLOUD ERP STANDARD	SAP RISE / CLOUD ERP OPTIONAL CAS/ SOLUTION[1]	CYBERSECURITY EXTENSION FOR SAP
SAP ANALYTICS CLOUD REQUIRED	NO	YES	NO
SAP ENTERPRISE THREAT DETECTION REQUIRED	NO	YES	NO
SAP FOCUSED RUN REQUIRED	NO	YES	NO
SAP RISK MANAGEMENT REQUIRED	NO	YES	NO
DRILLDOWN FROM SUMMARIZED RESULTS TO DETAILED RISKS, ALERTS AND SECURITY NOTES	NO	NO	YES
INTERACTIVE STACKED CARDS FOR VIEWING CRITICAL RISKS, ALERTS AND SECURITY NOTES	NO	NO	YES
CREATE AND PUBLISH MULTIPLE DASHBOARDS WITH UNIQUE FILTER SETTINGS FOR BUSINESS UNITS AND SECURITY DOMAINS	NO	NO	YES
THREAT MAP FOR ANALYZING RESULTS BY GEOGRAPHICAL LOCATION	NO	YES	YES
TREND ANALYSIS FOR ANALYZING CHANGES IN SECURITY RESULTS	NO	NO	YES

[1] SAP Analytics Cloud LOB Business Content Package

LAYER SEVEN SECURITY

Layer Seven Security is an industry leading provider of security solutions and services for SAP systems. It's Cybersecurity Extension for SAP performs advanced vulnerability management, compliance management, threat detection and custom code security to secure SAP systems from cyber attack. The software is certified for SAP S/4HANA and SAP RISE / Cloud ERP solutions.

CONTACT US

www.layersevensecurity.com
info@layersevensecurity.com

SAP Partner
Certified for S/4HANA