APPSIAN SECURITY

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Identity and Access Management

Mitigate risks in dynamic ERP environments with AI-empowered access management

Appsian Differentiators

▸ AI-empowered Access Management

▸ ABAC to enforce contextual access based on device, geolocation, time, and more

▸ Manage third-party risks with continuous control monitoring

▸ Automated user access, certification, and emergency access

▸ No custom development or ongoing maintenance for SSO and MFA integration

▸ Field-level MFA for granular access control

Managing user authentication and authorization is highly complex as businesses operate in hybrid, multi-vendor ERP environments. Employees, contractors, and third-party users such as partners, service providers need access to critical ERP systems to support business activities. These users access ERP from different locations, personal devices and, public or third-party service provider networks. Enterprises look at IAM controls such as single sign-on, multi-factor authentication, and role-based access controls (RBAC) to grant ERP access. But these controls need custom code development and ongoing maintenance to integrate with ERP. In addition, most MFA is limited to the log-in page, post that the user gets unchecked access to sensitive data and transactions, leading to fraud and increasing material weakness. Also, the traditional RBAC method of providing access is insufficient to protect ERP data and control high-value transaction execution in dynamic environments.
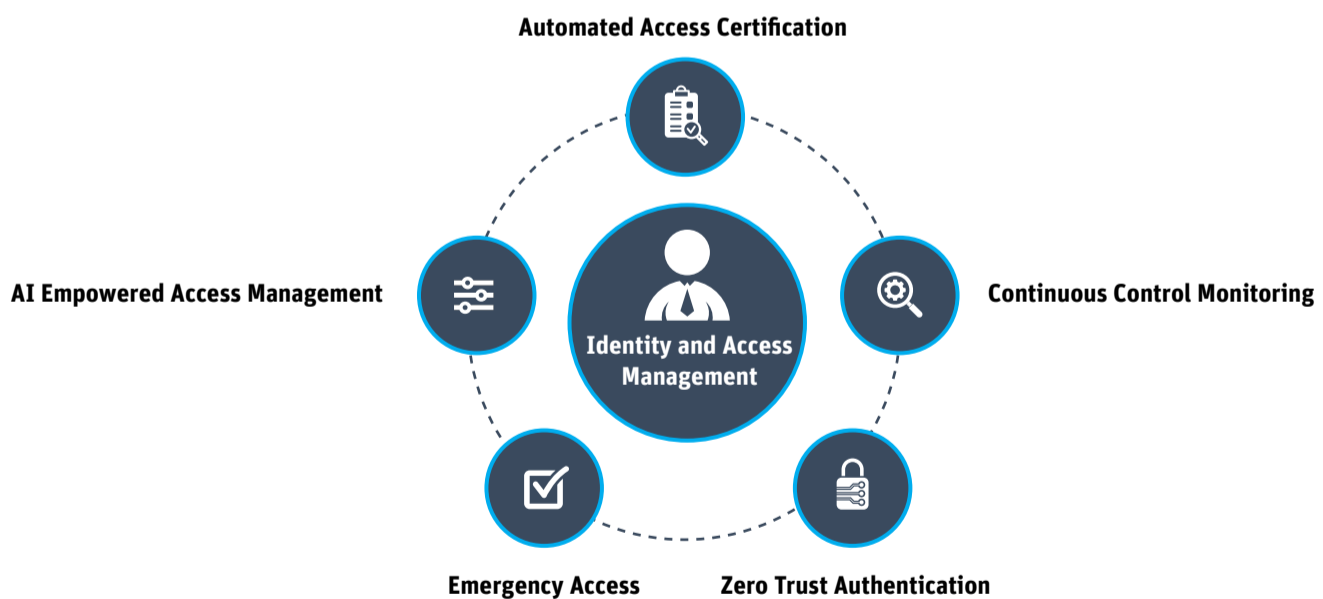
Enterprises need to show urgency on identity security;
79% experienced an identity-related breach within two years[*]

According to Gartner's Continuous Adaptive Risk & Trust Assessment (CARTA) model, organizations need to move away from the initial one-time, yes/no risk-based decision at the perimeter. To your ERP systems for a continuous, real-time, adaptive risk and trust analysis of user anomalies with context-aware information found in ABAC models.

Appsian Security Identity and Access Management (IAM) simplifies and escalates security in dynamic multi-vendor ERP environments. Appsian integrates existing enterprise SSO solutions with ERP to provide a seamless user access experience. It provides an additional layer of security with stepped-up MFA at page or data field level and can gate-sensitive t-code execution. In addition, Appsian provides attribute-based access controls (ABAC) that reduce data exposure and business risk based on device, geolocation, and time to significantly reduce the data exposure and business risk.

[*] 2021 Trends in Securing Digital Identities, dimensional research.

Key Solutions

Automated Access Certification

AI Empowered Access Management

Identity and Access Management

Continuous Control Monitoring

Emergency Access

Zero Trust Authentication

Automated Access Certification

CHALLENGES	SOLUTION
Sarbanes-Oxley compliance requires organizations to re-certify user access, which for many enterprises is a strenuous process. However, it is essential to reduce business risk and allow internal auditors to face audits more confidently. Access certifications are labor-intensive and are prone to errors due to the vast amount of data that needs manual examination.	Appsian automates the access certification process while reducing human errors. The Smart Statistics feature groups all low-risk authorizations into a single approval process, improving efficiency and bringing more focus on high-risk permissions. In addition, the solution provides a behavioral profile to determine the necessity of each authentication, brings in cost savings, and helps meet audit requirements.

AI Empowered Access Management

CHALLENGES	SOLUTION
Manually searching through hundreds or thousands of profiles to find the appropriate roles to assign a user is time-consuming, error-prone, and frustrating. Granting more access than what a user needs to save time is one of the leading causes of segregation of duties conflicts and puts the organization at risk for potential fraud.	Appsian's AI capabilities help read and analyze user roles, user attributes, authorizations, and usage log data (behavior analysis) from target systems (e.g., ERPs, HR, Active Directory, etc.) to provide recommendations. It has an integrated Natural-Language Processing (NLP) to identify urgent requests and prioritize them. In addition, the solution consolidates and approves non-risk access requests automatically and alerts if roles are assigned without following standard procedure.

Emergency Access

CHALLENGES	SOLUTION
Granting temporary or firefighting access to the production environment so that developers, or support teams, can troubleshoot a problem is a manual and cumbersome process. Security teams review the request, grant the temporary access, and have to follow up multiple times to remove access once the project is complete. Ideally, this access should have an expiration date and should be logged for auditing.	Appsian automates the emergency access process while meeting audit and security requirements. The role is automatically chosen based on the task and access revoked after the defined time frame expiration. Audit-ready user activity reports are available for review at any time. In addition, continuously monitoring the production environment can indicate any suspicious activity.

Zero Trust Authentication

CHALLENGES	SOLUTION
Traditional IAM solutions use role-based access control to govern access in static environments. It is also cumbersome to integrate MFA with ERP as it requires custom development and ongoing maintenance. Moreover, users' resistance to authenticating multiple times can carelessly allow access when push notifications appear on their phones.	Appsian can enforce a Zero Trust policy that considers a user's contextual attributes, including the location of access, time of the request, and others, before establishing trust and granting access to data or transactions. Appsian provides seamless ERP integration with various MFA vendors such as Duo, Okta, SafeNet, Microsoft Authenticator & more. The solution can force MFA challenges at page/component/field levels or even based on role/privileges. Additionally, the solution can enforce challenges as users move to different applications such as HCM, campus solutions, and more.

Continuous Control Monitoring

CHALLENGES	SOLUTION
Enterprises do not continuously monitor employees and third-party service providers to analyze SOD violations, master data modifications, and transaction-level activities. Instead, only a random fraction of high-risk activities are monitored during periodic audits. As a result, there can be strategic, financial, operational, contractual, credit, compliance, business continuity, and reputational risks that stay undetected across your ERP landscape.	Appsian helps provide real-time, context-based monitoring within your ERP applications at the access, transaction, and data level to enable you to be audit-ready. In addition, the solution offers comprehensive monitoring across 24/7, 365 days a year of high-risk activities carried out by employees and third-party users. This level of monitoring helps rapid detection of violations, reduce their impact and achieve a faster incident response.

In recent years, the world experienced a significant rise in remote work and execution of ERP transactions outside the corporate networks—making it an attractive target for cybercriminals. As a result, many enterprises realized the importance of Identity and Access Management as a core security element to reduce risk, contain costs, and increase productivity. Appsian Security can provide these benefits with its comprehensive capabilities in Identity and Access Management, Data Security, and Governance Risk and Compliance for various ERP environments.

To know more

SCHEDULE A DEMO

Or contact us at: info@appsian.com

About Appsian

Appsian Security provides the fastest path to strengthening ERP data security, IAM & GRC for some of the largest organizations in the world using SAP, Oracle E-Business Suite, and PeopleSoft. Using a software platform designed for intrusion prevention, data loss prevention, and threat detection & response, Appsian Security helps ERP customers attain the deepest levels of control and visibility. Appsian Security is an Oracle and SAP technology partner and won the 2021 Global Infosec Awards for Next-Gen in ERP Data Security and Cutting Edge in ERP Risk Mitigation. More than 300 global customers from IT & IT services, financial services, healthcare, higher education, federal and state governments trust Appsian to safeguard their mission-critical ERP applications. Learn more at www.appsiansecurity.com

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