

Enterprise Application Integrity Services for SAP Solutions

Securing technology, managing the cost of controls and compliance

Overview

Navigating risk of enterprise applications

The implementation of a large, complex Enterprise Resource Planning (ERP) application, like SAP, can have a profound impact on a company's existing risk and control environment. Throughout the implementation, existing business processes are modified to address more efficient, SAP-enabled business practices. As business processes evolve, new operational and financial reporting related risks may be introduced. To address enterprise-wide risks, companies are looking for industry leaders in compliance to provide integrated solutions to address real concerns. Business process and infrastructure controls, application security, data integrity, data protection, governance, and privacy are critical aspects to implementing such a program. Deloitte¹ brings insight, experience, and services that can assist organizations as they move toward a path of effective and efficient risk and compliance management.

A fresh approach

A trusted security and risk advisor on your enterprise application journey

With the implementation of new solutions to automate complex business processes, considerations around security architecture, governance and risk emerge as top priorities. Organizations should seek a scalable and automated risk solution that balances compliance against efficient business processes.

Deloitte's Enterprise Application Integrity (EAI) professionals are focused on delivering a distinctive trusted advisor experience that helps clients address security, privacy, control, and compliance requirements of expanding application ecosystem. Deloitte's distinctive client service via our collaborative approach brings a breadth of technical and industry risk capabilities to assist clients in managing compliance requirements and addressing risks during the full life cycle of application transformations, upgrades and implementation projects, as well help clients to sustain and administer security and controls in production environments. We help clients



secure their SAP system, monitor them to stay vigilant and develop resiliency plans to recover from incidents. Our framework includes:

- **Secure:** In-depth understanding and experience with SAP specific controls, security and segregation of duties (SoD) requirements, technologies, leading practices and the current regulatory environment
- **Vigilant:** Broad cyber solutions that enable organizations to monitor their SAP system for compliance violations, insider threats and external attacks; allowing real time situational awareness for the first time
- **Resilient:** Time tested continuity plans to help recover from environmental or cyber incidents large and small and forensic capabilities to know exactly what happened

¹As used in this document, "Deloitte" means Deloitte & Touche LLP, a subsidiary of Deloitte LLP. Please see www.deloitte.com/us/about for a detailed description of the legal structure of Deloitte LLP and its subsidiaries. Certain services may not be available to attest clients under the rules and regulations of public accounting.

To better align processes to your business objectives, we tap into our industry-specific insights and intellectual capital across 27 industry segments, allowing us to better define SAP application management requirements. For implementations, Deloitte leverages our SAP industry-specific security and control accelerator tools to rapidly provide risk and control solutions tailored to our clients' needs, which helps them to meet the challenges of industry-specific financial, operational and regulatory risks. Deloitte's practical knowledge of governance, risk, compliance (GRC) issues and solutions can be applied to support effective coordination, monitoring, and integration with internal and external auditors. Deloitte also leverages tax, consulting, and financial advisory resources for an added source of specialization that can further boost the alignment and effectiveness of internal ERP controls to your business objectives.

The Deloitte and SAP Alliance: A collaborative team

- Platinum member of the SAP Global Alliance
- 2002–2013 SAP's Award of Excellence
- SAP Pinnacle Award, Quality Award Partner
- 2013 SAP Partner Excellence Award, North America: Top Partner — Strategic Industries
- 2013 SAP Partner Excellence Award, North America: Top Supports Services — Technical Quality

Our EAI service offerings for SAP solutions include:

- **Business process controls** — Our experience and insights show that it is more efficient to design and implement controls proactively as part of process definition to assist in reducing the risk of costly rework. This also helps in identifying control environment transformation opportunities to move the dial from traditional manual and detective controls, to automated and preventative controls. For example, Deloitte leverages SAP configurations to enable automated purchase order approval rather than having staff perform manual reviews of purchase order approvals to ascertain that a user does not dominate a transaction.
- **Data conversion, interface, and reporting controls** — Data conversions, interfaces, and reports are common requirements of application implementations and are financially relevant and in-scope for Sarbanes-Oxley, Section 404 and other compliance requirements. Deloitte provides services that help migrate existing data from replaced systems, and assists with controlling and testing the completeness and accuracy of these deliverables.

- **SAP application security** — It is important to align application security with the defined business processes while keeping in mind scalability, SoD, and least privilege access principles. This helps to promote flexibility in the application security to accommodate future changes while also adhering to compliance and regulatory requirements. We use the pre-built accelerators to assist with the design and configuration of security roles to meet client needs. We use our SAP Security and industry experience to assist in identifying, configuring, and testing the transaction codes and authorization objects that a person needs to perform their job responsibilities. Our practical and deep knowledge of governance and compliance helps us perform these activities while also helping clients design and implement a controlled environment.
- **SAP Governance, Risk, and Compliance (GRC)** — Defining a process for facilitating and monitoring compliance is important to have an effective risk management program. We can help clients to implement an integrated approach for their SAP GRC solution, focusing on SAP GRC Access Control, Process Control, and Risk Management. An integrated approach to GRC is essential to breaking down functional, process, and technology silos to improve recognition, understanding, and prioritization of risks. Using SAP GRC Access Control, we assist clients in identifying segregation of duties issues, control privileged access, and in automating their user provisioning process to prevent SoD violations. Our SAP GRC Process Control and Risk Management services allow clients to leverage these solutions to proactively identify and monitor risks within their organization, and manage and test internal controls for operational effectiveness.
- **Application Management Services (AMS)** — Our AMS practice leverages deep experience and knowledge from our industry and technical/functional competency centers to provide differentiated managed security, control, and compliance services that spans the full lifecycle of application risk management. We have dedicated AMS talent with specializations in SAP environments that are focused on managing and supporting production security environments across the globe during SAP implementation, as well as post production support.

Changing the game

As organizations push their enterprise applications to the edge, one trend will always be present — change. Deloitte continues to focus on identifying and providing services for new technologies in the application marketplace. We apply our technology-agnostic Enterprise Value Delivery (EVD) methodology to emerging trends and technologies, providing clients with security and control solutions. By being the market leader in the application space Deloitte is constantly studying and setting the pace for what is trending in the marketplace. Below are just a few areas that Deloitte has already begun to solution against for our clients.

- **Application security monitoring** — Companies desire to be more proactive in preventing events within the Information Technology (IT) landscape, including threats in their ERP environment. They are moving toward real-time, up-front, preventative monitoring of enterprise application user activity to identify trends and vulnerabilities within their core business applications.
- **Expanding application ecosystem** — With the convergence of social, mobile, cloud, and information into the application ecosystem, significant user expectation changes are taking place regarding how end users interact with the various technologies. Applications are moving to the edge of core ERP systems and beyond the traditional personal computer (PC) environment.
- **Embracing the cloud** — Global Enterprises are increasingly turning to hybrid clouds, which offer the benefits of both public and private clouds in an integrated system. Distributed data centers and the intelligent wired and mobile networks that connect them now represent a viable alternative to Virtual Private Networks (VPN).
- **Controls Sustainment** — Although financial audit issues continue to be a focus of risk, companies are realizing that their application technology risks lie far beyond their core financial applications. The need to expand controls efforts to include these technologies and to transition to greater risk intelligence and controls maturity will be the driving force for controls sustainment.

The Deloitte difference

Committed, credentialed, capable

Deloitte differentiates itself with a dedicated Cyber Risk Services practice, which includes our SAP security specialists devoted to helping organizations address their security and controls requirements during SAP implementations or production operations. We have a strong alliance with SAP and a tested methodology, EVD, which guides us in our approach to provide client service across multiple industries. EVD is a leading practice approach to providing consistent delivery, quality service, and measurable value. We bring specialized resources and tools to not only assist with the technical aspects of application security design efforts, but also to provide value in improving the organization's governance structure and help our clients to sustain compliance over the long term.

Deloitte's and DCTL's Cyber Risk Services practice

- More than 300 U.S. dedicated SAP security and control professionals
- More than 2,000 Certified Information Systems Auditors (CISAs)
- Qualifications for large, complex, and global SAP implementations
- Recognized leader in risk management and consulting services
- More than 15,000 IT risk management and security professionals worldwide
- GRC implementation capability and experiences bringing technology, compliance, and business processes together
- Over 1,100 Certified Information Systems Security Professionals (CISSPs) globally, one of the largest groups of CISSPs in the world

Deloitte has been rated by leading independent research firms as a global leader in end-to-end risk management services. This external recognition affirms what many Deloitte Cyber Risk Services clients already know — that we offer a distinct advantage and differentiated client service through our:

- **Broad view of risk** — We combine a strategic risk approach to security, control, and compliance issues with an in-depth understanding of business and industry issues. Extensive internal and external audit experience also allows us to bring an auditor's eye to your organization to avoid potential surprises.
- **Long-term commitment** — Two fundamental factors in a professional service relationship are commitment and long-term involvement. Our long-term view toward building and maintaining relationships means that we are interested in your success.

- **Mature national practice** — We have one of the most highly credentialed and longest serving risk practices in the marketplace, dating back to when we were established in 1994. We can deploy resources nationally to meet your requirements, while scaling locally to fit your needs. We also have a fully operationalized and integrated practice, with more than 50 percent of our practitioners based in India.
- **Full life-cycle approach** — Deloitte can deliver the full life cycle — from strategy to implementation to sustainment. Our alternative delivery methods, including our offshore capability models and security specific application managed services, provide cost-effective solutions and a dedicated focus to governance.
- **Global leadership** — Deloitte LLP is the largest private professional services organization in the United States and a member of Deloitte Touche Tohmatsu Limited (DTTL), the largest private professional services network in the world. With more than 1,000 practitioners in the U.S. and 15,000 globally focused on risk consulting,

“Deloitte brings a strong value proposition to cyber security consulting by melding its industry expertise, its ‘one approach, one model,’ cyber security-specific investments, and C-suite communication capabilities.”

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Deloitte’s experience, skills, and ability to deliver complex solutions stands well above our competitors. With access to a global multi-functional consulting and system implementation practice, Deloitte can bring several disciplines together to address your strategic risk needs.

Contact us

To learn more about Deloitte’s EAI services, visit us online at www.deloitte.com/us/EAI or contact:

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