

Enterprise application integrity services

A *Secure. Vigilant. Resilient.* approach for enterprise applications

Overview

Navigating risk of enterprise applications

As organizations increasingly rely on an expanding application ecosystem, including core enterprise resource planning (ERP) systems and technologies making application access available at the fingertips of users anytime and anywhere, globally integrated business processes have become more vulnerable to fraud, cyber-attack and other incidents. Moreover, ERP data has become richer and more valuable. ERPs today house much more than just financial information; they hold customer data, intellectual property and proprietary supply chain methods that could be important to the organization's competitive advantage. So, more than ever, threats to ERP continuity or lost ERP data threaten the business. At the same time, vulnerabilities in ERP abound. Some vulnerabilities are introduced through poorly controlled systems implementations, others from mergers and still others are intentionally created for nefarious purposes. Without proper controls in place, sensitive data is at heightened risk — increasing the potential for cyber threats, fraud and compliance violations.

What is required?

The imperative to become secure, vigilant, and resilient

To address these challenges, many companies are looking for external specialists with the skills and experience to help implement a highly automated internal controls environment that address these emerging issues and get the right balance between risk and reward.

Organizations are also seeking a market leader that offers:

- Industry insights that understand specific industry challenges and provide a detailed view on risks beyond technology
- In-depth understanding of security and control trends, continuous monitoring and maintenance, and recovery combined with proven skills in associated technologies, leading practices, and the current regulatory environment
- Demonstrated experience with ERP and web application controls functionality
- Practical knowledge of governance, risk, compliance (GRC) issues and solutions, which can be applied to support effective coordination, monitoring, and integration with internal and external auditors
- Access to global tax, consulting, and financial advisory resources for an added source of specialization that can further boost the effectiveness of application controls

We are focused on competencies to address the ever-changing technology ecosystem, including the move of applications to the edge, the increasing application layer cyber threat, and the growing analytics opportunity for continuous security and control monitoring. We do this through core application security and controls design work, with focus on application and control monitoring, GRC data analytics, and enterprise application resiliency. We provide this under alternate service delivery models and through the life-cycle of service needs including strategy and planning, transformation and implementation, and managed services and operations as described below.



A collaborative approach

With a distinctive client service experience

Deloitte's Enterprise Application Integrity (EAI) professionals are focused on delivering a distinctive trusted advisor experience that addresses the 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 each engagement. We help clients secure their ERP's, monitor them to stay vigilant and develop resiliency plans to recover from incidents, including:

- **Secure:** In-depth understanding and experience with ERP 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 ERP systems 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

Our EAI service offerings include:

Business process controls — We design and implement optimized internal control frameworks for enterprise applications, leveraging a cost-effective mix of automated and manual controls that are embedded in business processes. This includes financial reporting, operations, and compliance controls. And we help monitor controls once implemented.

Deloitte's Cyber Risk Services practice

More than 15,000 IT risk management and security professionals worldwide

Over 1,100 Certified Information Systems Security Professionals (CISSPs) globally, one of the largest groups of CISSPs in the world

More than 2,000 Certified Information Systems Auditors (CISAs)

Recognized leader in risk management and consulting services

GRC implementation capability and experiences bringing technology, compliance, and business processes together

400 dedicated Oracle and SAP implementation professionals

Our security, privacy and controls qualifications include some of the largest and most complex ERP global implementations

Application security — Deloitte assists clients with the design, implementation, and testing of role-based application security for new or existing application-enabled business processes. The use of security accelerators provides guidance related to role definition, SoD, and sensitive access.

Governance, risk, and compliance (GRC) — Deloitte designs, implements, and supports GRC solutions to assist with ongoing compliance and monitoring activities for enterprise applications. We help clients take an integrated approach to GRC, which is essential to breaking down functional, process, and technology silos and achieving better recognition, understanding, and prioritization of risks. User provisioning and managing access to, as well as overall security of, various applications are the cornerstone of an effective GRC program.

Application Management Services (AMS) — Our AMS practice leverages deep experience from our industry and technical/functional competency centers to deliver differentiated managed security, control, monitoring, and compliance services that span the full lifecycle of client needs. We have dedicated AMS security talent focused on managing production security and control environments.

Industry: We tap into industry-specific insights and intellectual capital across 27 industry segments, allowing us to make better, faster, and more informed application management decisions.

Technical/functional: Deloitte brings market-recognized experience and strong vendor relationships to our clients, enabling us to help them address their most complex and multi-dimensional risk challenges.

Each application has its own parameters and requirements. Deloitte's practical, risk-based, and modular approach allows us to tailor our response to meet your specific needs. In addition to our main services offerings, we also provide:

Cyber threat and vulnerability management — We assist clients in assessing application and network environments to identify vulnerabilities and control weaknesses within information systems and the computing infrastructure.

Privacy and data protection — Deloitte helps organizations identify and manage risks and opportunities associated with information management and data protection. We can help companies respond strategically and tactically to data asset management issues associated

with globalization, diverse and conflicting legal and regulatory requirements, rapidly changing technology, and extended enterprises.

“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.”

Source: Kennedy Consulting Research & Advisory; Cyber Security Consulting; Kennedy Consulting Research & Advisory estimates
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Data quality and integrity — Through automated methods, Deloitte designs, implements, and assesses the data quality and cleansing requirements of enterprise applications.

Enterprise compliance technology — Our practice addresses the design, implementation, and assessment of “smart” tools for Sarbanes-Oxley, Section 404; Health Insurance Portability and Accountability Act (HIPAA); Foreign Corrupt Practices Act (FCPA); Food and Drug Administration (FDA); and other compliance considerations.

Information technology controls — We design, implement, and assess controls that assist in the reliability, availability, and recoverability of the information technology (IT) infrastructure, such as change control, back-up and recovery, job scheduling, problem management, database, and operating system administration.

Internal audit services — Deloitte helps connect IT and the Internal Audit function to gain a deeper understanding of the risks and opportunities that come with today’s systems, applications, and other technologies.

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 a 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 where Deloitte has already implemented to solutions against for our clients.

Application security monitoring — Companies desire to be more proactive in preventing events within the IT landscape, including threats in their ERP environment. They are moving towards 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 all 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.

Vendor alliances

SAP

- Platinum member of the SAP Global Alliance
- Recipient of SAP’s Award of Excellence 2002–2012

Oracle

- Diamond Certified Partner
- Recipient of multiple Oracle Titan Awards 2004–2012

The Deloitte difference

Committed, credentialed, capable

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 your business and industry challenges. Extensive internal and external audit experience also allows us to bring an auditor's eye to your organization, helping avoid surprises.

Long-term commitment — Two fundamental factors in any professional service relationship are commitment and long-term involvement. Our long-term view toward building and maintaining relationships means that we are interested in helping you achieve your goals.

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 over 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 an unwavering focus to governance.

Global leadership — Deloitte LLP and its subsidiaries 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's our experience, skills, and ability to deliver complex solutions stands well above our competitors. Combined with 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 enterprise application integrity services, visit us online at www.deloitte.com/us/EAI or contact:

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