

# A success story of enterprise threats detection

SAP landscapes are quickly evolving towards more complex and larger environments supporting critical business processes in many organizations. SAP is now seen as the core system, the digital heart of an organization, one of the most valuable digital assets and it is vital to protect against cyber threats. Deloitte implemented SAP ETD enhancing visibility and monitoring over organization's SAP landscape. Starting with normalizing all the logs coming from various sources into the solution's security knowledge base, SAP ETD was able to detect internal threats from internal users and third-party users that were responsible for non-core activities in the organization. This tool provided security teams valuable insights, enabling monitoring and detection of fraud attempts and information leaks in SAP, which are very complex to achieve in a SAP environment, especially in large landscapes.

র্ত্থে

ငာ

SAP ETD

## Why SAP ETD?

Integrating SAP application logs with SIEM applications can be a complex task and raise certain challenges.

SAP ETD delivers in-built connectors to SAP applications and log parsing enabling an easier management, analysis and correlation of logs, as well as an easier integration with other SIEM tools.

#### **Our approach**

Deloitte's approach for the project included design workshops with business teams who provided valuable insights to design use cases, especially related with fraud activities and exfiltration attacks.

Here's a summary about implementation approach:

- Log assessment: verify which types of logs were 1.
- active in SAP landscapes to anticipate Design workshops: involving business teams to 2. provide insights for use-case design
- 3. Architecture design: Low Level Design about SAP ETD architecture and sizing and how to securely transfer SAP logs to SAP ETD
- 4. Configuration: use-case configuration in SAP ETD and forward alerts to existing SIEM solution
- 5. MVP (Minimum viable product): Go-live with a MVP which included 3 log sources: 2 SAP systems and 1 non-SAP systems
- Rollout: smooth rollout for the whole SAP 6. landscape and embed SAP ETD in all new implementation products as log sources for this security platform.

### Results

This new tool represented a **major** shift in security monitoring over SAP landscapes in this organization.

IT infrastructure logging was being



SAP systems have multiple types of logs which do not have a standardized format or structure: some are stored as log files in OS and others are stored in standard SAP database tables.

Volume - SAP systems usually have hundreds concurrent users and can generate many events logs that can raise up to an high volume of data in a short period of time and this data must be quickly transferred.

Integrations - Monitoring and maintaining many interfaces between SAP systems and SIEM platforms and log retention policies are highly costly in terms of effort and complexity.

SAP logs do not natively have a standard format or include information that would easy be used for correlation in a SIEM tool.





- monitored but there was a large lack of visibility over application logging.
- Diagram on the right summarizes how SAP was integrated and how log data and alerts flow in current security landscape.
- ETD is now a driver to **detect data** breaches and anomalous user behavior and fully integrated with existing SIEM solution which helped SOC team to increase monitoring capabilities without extra effort.

#### Contacts



Frederico Mendes Macias Partner fremacias@deloitte.pt



André Correia de Sousa Senior Manager +351 962753775 andrsousa@deloitte.pt

# Deloitte.

Deloitte refers to one or more of Deloitte Touche Tohmatsu Limited ("DTTL"), its global network of member firms, and their related entities. DTTL (also referred to as "Deloitte Global") and each of its member firms are legally separate and independent entities. DTL does not provide services to clients. Please see www.deloitte.com/about to learn more

ding global provider of audit and assurance, consulting, financial advisory, risk advisory, tax and related services. Our network of member firms in more than 150 countries and territories serves four out of five Fortune Global 500® companies. Learn how Deloitte's approximately 312,000 people make an impact that matters at www.deloitte.com

This communication contains general information only, and none of Deloitte Touche Tohmatsu Limited, its member firms or their related entities (collectively, the "Deloitte network") is, by endering professional advice or services. Before making any decision or taking any action that may affect your finances or your business, you should consult a qualified professional adviser. No entity in the Deloitte network shall be responsible for any loss whatsoever sustained by any person who relies on this communication