



# How Lepide Would Have Helped to Prevent the Tesla Insider Threat

## CASE STUDY

### **ABOUT THIS CASE STUDY**

This is a case study of how Lepide would have helped prevent a real-world data breach. It is theoretical. Tesla were not asked to participate in the case study, and the information on the breach was gathered from publicly available sources.

# HIGHLIGHTS

## HOW IT HAPPENED

- On the 10th of May 2023, Tesla's Data Privacy Office reported a data breach to the office of Maine Attorney General. They stated that **75,735 individuals** had been affected and described the cause as '**insider wrongdoing**'.

## THE IMPACT

Handelsblatt claim they received over 23000 documents including:

- Sensitive employee information such as names, addresses and social security numbers (Elon Musk's social security number was said to be amongst these).
- Customer info such as bank details
- Intellectual property and customer complaints that were potentially damaging to Tesla.

Fines have yet to be levied, but Tesla could face up to **\$3.3 billion** (4% of global revenue) in fines for breaching GDPR.

## THE SOLUTION

- **Excessive permissions:** Identify and rectify users with excessive permissions to enforce least privilege.
- **User Behavior Monitoring:** Spot when users are acting suspiciously, such as copying files with sensitive data.
- **DLP:** Detect the signs of data loss, especially in cases where sensitive data is affected.
- **Forensic Analysis:** Identify the scope and cause of breaches with a detailed and searchable audit log.

## WHAT HAPPENED

On the 10th of May 2023, Tesla's Data Privacy Office reported a data breach to the office of Maine Attorney General. They stated that **75,735 individuals** had been affected and described the cause as '**insider wrongdoing**'.

It's alleged that two Tesla employees exfiltrated around 100TBs of sensitive company data and shared it with a German newspaper outlet 'Handelsblatt'.

Exact details of how the Tesla insiders accessed and shared data has not been publicly disclosed, but it likely involved:

- Leveraging permissions and access rights from previous roles to gain access to sensitive company data.
- Copying large amounts of data from critically sensitive folders and moving it to personal drives.
- Sharing this data externally via unauthorized channels (e.g. personal OneDrive).

## THE IMPACT

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Fines have yet to be levied, but Tesla could face up to \$3.3 billion (4% of global revenue) in fines for breaching GDPR. It's important to note that the full extent of the impact remains unclear as the investigation unfolds and long-term consequences become evident. The breach eroded general trust in Tesla's data handling practices, potentially impacting user behavior.

# SOLUTION

## How the Lepide Data Security Platform Could Have Helped

With the benefit of hindsight, there were several ways in which Lepide could have helped Tesla reduce the likeliness of the breach and speed up detection/response. These include:

1

**Excessive Permissions:** Ensuring users only have permissions to access data they need on a day-to-day basis reduces the impact disgruntled employees can have. If Lepide was in place, it would have allowed Tesla to identify and remove permissions that had been acquired from previous roles, and therefore reduce the amount of data the disgruntled employees could access.

2

**User Behavior Monitoring:** Lepide can learn patterns of employee behavior and alert you to potential threats. The solution can then respond to secure data in real time. In the case of Tesla, Lepide may have been able to identify disgruntled employees acting abnormally (copying large amounts of data from stores they don't usually access) and stopped them in their tracks.

3

**Data Loss Prevention:** With Lepide, you can detect critical signs of data loss, including bulk copying, moving, sharing or deleting of sensitive data. Our data classification software, would have detected that sensitive data was being copied or shared outside of Tesla via unauthorized channels. If configured correctly Lepide could have potentially blocked the unauthorized transfer of sensitive data, making it harder for the insiders to move the information outside Tesla's systems.

4

**Forensic Analysis:** Lepide would have logged a complete audit trail of the perpetrators' actions. Tesla could have more easily identified the scope of the breach and what data had been compromised. This would have saved time and cost related to forensic analysis after the event.

## 1. Excessive Permissions

Excessive permissions occur when individuals are granted more access and privileges than necessary, creating security vulnerabilities. This practice conflicts with the Principle of Least Privilege (PoLP), which advocates for providing the minimum necessary access for job tasks.

Regularly auditing and addressing excessive permissions is a proactive strategy to reduce the risk of insider threats. It limits the potential impact of unauthorized access, data modification, or exfiltration. Moreover, it facilitates early detection of anomalies in user behavior, aiding in the swift identification of potential insider threats.

By adhering to the principle of least privilege, organizations align with compliance requirements stipulated by various regulatory frameworks and industry standards. This not only ensures legal compliance but also shields against reputational damage.

## 2. User Behavior Monitoring

User behavior monitoring is a critical component in safeguarding against insider threats within an organization. This practice involves tracking and analyzing the actions of individuals to detect any deviations from normal patterns, helping to identify potential security risks. Structuring user behavior monitoring effectively offers several advantages.

Continuous monitoring of user activities allows organizations to establish a baseline of normal behavior. Deviations from this baseline, such as unusual data access or multiple failed login attempts, can serve as early indicators of potential insider threats. Lepide plays a pivotal role in user behavior monitoring, providing real-time alerts for suspicious activities. It uses advanced analytics to detect anomalies, enabling organizations to respond promptly to potential threats. By understanding typical user behavior, organizations can detect and mitigate both intentional malicious actions and unintentional security lapses. This proactive approach enhances overall security posture and minimizes the risk of data breaches.

Periodic reviews and analysis of user behavior data facilitate the identification of patterns or trends that may indicate insider threats. This continuous assessment helps organizations stay ahead of potential risks and enhances their ability to respond effectively.

## 3. Data Loss Prevention

Data Loss Prevention (DLP) solutions, like Lepide, play a pivotal role in mitigating insider threats for organizations. Firstly, these solutions facilitate the identification of sensitive data by scanning and classifying information. This initial step lays the foundation for creating policies that govern the handling of critical data.

Once policies are defined, DLP tools enforce them across various communication channels. Lepide, for instance, monitors email, MS Teams, and user behavior across file stores, preventing unauthorized access, use, or transmission of sensitive information. This robust policy enforcement significantly reduces the risk of insider threats by controlling the flow of data within the organization.

Moreover, DLP solutions contribute to incident response capabilities by generating alerts and reports on policy violations. This timely detection allows organizations to swiftly address potential insider threats before significant harm occurs. Additionally, Lepide can integrate seamlessly with encryption and data masking solutions, securing sensitive data during transit and storage, further fortifying against insider threats.

In conclusion, DLP solutions like Lepide empower organizations to proactively prevent insider threats by identifying sensitive data, enforcing policies, facilitating incident response, and incorporating advanced security measures.

## 4. Forensic Analysis

Lepide Data Security Platform serves as a valuable tool for organizations addressing insider threats through robust forensic analysis. Offering real-time monitoring, the platform tracks user activities, file access, and communication, generating alerts for suspicious behavior. User Behavior Analytics aids in identifying deviations from normal patterns, crucial for early threat detection.

The platform maintains detailed audit trails and logs, creating a chronological record of events for forensic analysis. With features for data classification and sensitivity, Lepide allows organizations to focus on high-risk data during investigations. In the aftermath of an insider threat, the platform facilitates detailed incident investigations, reconstructing timelines and identifying involved individuals.

Forensic reporting features enable the generation of comprehensive reports, valuable for internal analysis, compliance, and legal purposes. Integration with other security tools, such as SIEM solutions, enhances overall capabilities. Regular updates and configuration adjustments ensure the platform aligns with organizational needs and legal requirements. To complement these technical measures, having a well-defined incident response plan is crucial for efficiently addressing and mitigating insider threats.

**Get peace of mind that your  
identities and data are  
secure with Lepide.**

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