



Securing Modern Workplace Applications: Mitigating Internal Data Breach Risks

In today's connected world, modern workplace applications are indispensable tools for communication, collaboration, and productivity. However, these applications also pose significant risks for internal data breaches, including threats from malicious insiders, corporate espionage, and dismissed or resigned employees. While most companies believe that having proper access controls is sufficient, they cannot prevent individuals with authorized access from misusing the data. This is where Data Loss Prevention (DLP) solutions come into play. Understanding these risks and implementing Data Loss Prevention (DLP) solutions are essential for safeguarding sensitive information.

Instant Messaging Tools (e.g., WhatsApp, Messenger, WeChat)

Instant messaging tools like WhatsApp, Messenger, and WeChat are essential for quick communication and coordination at today's workplaces, but they can also be channels for data leaks if not properly managed. These platforms allow users to easily copy and paste large amounts of sensitive data, which can be quickly transferred to unauthorized parties. The ease of forwarding messages and attachments can lead to both intentional and unintentional data breaches. For instance, an employee might accidentally share confidential business information in a WhatsApp group chat that includes external parties. Industries that rely heavily on instant communication, such as customer service and sales, may be particularly vulnerable to these risks.

Document Management Systems (e.g., internal file servers, local document storage)

Document management systems like internal file servers and local document storage are critical for storing and managing files, but they can also be vulnerable to data breaches. Unauthorized access to shared documents and insufficient access controls leading to data exposure are notable risks. A common example would be a user without proper permissions gaining access to sensitive financial documents stored in internal file servers, leading to a potential data breach. Financial institutions and legal firms, which handle large volumes of sensitive documents, are particularly at risk.

Customer Relationship Management (CRM) Systems (e.g., Salesforce, HubSpot)

CRM systems like Salesforce and HubSpot hold valuable customer information, making them prime targets for internal data breaches. Risks include exporting sensitive customer data without proper authorization and insufficient oversight of user activities. An example of such a breach could be an employee exporting a list of customer contacts from Salesforce and sharing it with a competitor. Retail and e-commerce companies, which depend heavily on customer data for marketing and sales, are especially vulnerable.



Enterprise Resource Planning (ERP) Systems (e.g., SAP, Oracle)

ERP systems like SAP and Oracle integrate various business processes and store vast amounts of sensitive data, posing significant risks if not adequately protected. These systems manage a wide array of critical information, including customer details, supplier information, cost data, and sales prices. For example, customer PII (names, addresses, contact details), supplier contracts, pricing agreements, and cost structures are all integral parts of an ERP system. If this sensitive data is leaked, it can cause significant operational disruptions and financial losses.

While most ERP systems have robust access control mechanisms, managing what authorized users can do with exported data remains challenging. Once data is exported into spreadsheets or other formats, it becomes difficult to control, and employees can misuse this data by sharing it externally, intentionally or unintentionally. Additionally, employees without export permission can still take pictures or videos of sensitive data using their own devices, bypassing digital controls entirely.

An internal actor might export detailed financial records or customer lists and share them with competitors, leading to potential fraud, competitive disadvantage, and severe financial impact. Manufacturing and logistics companies, which rely on ERP systems for operational efficiency, are particularly susceptible to these threats, as leaks of cost and sales price data could undermine supplier negotiations and customer trust.

Project Management Tools (e.g., Asana, Trello, Jira)

Project management tools like Asana, Trello, and Jira streamline workflows and project tracking, but they can also be exploited for data breaches. Risks include sharing of sensitive project details with unauthorized users, lack of control over document attachments and file sharing, and insufficient monitoring of user actions. A typical scenario might involve a team member inadvertently sharing a project plan containing confidential business strategies in a public Trello board. Industries such as construction and software development, which manage large projects with multiple stakeholders, are particularly at risk.

Design Software / PLM / PDM (AutoCAD, SolidWorks, Adobe, SketchUp)

Design software and Product Lifecycle Management (PLM) systems like AutoCAD, SolidWorks, Adobe, and SketchUp are crucial for product development, but they can also be vulnerable to data leaks. Unauthorized access to design files and intellectual property, inadvertent sharing of proprietary information, and weak access controls and insufficient monitoring are common risks. For instance, an engineer might share a CAD file containing proprietary product designs with a third-party vendor without proper authorization. Industries such as manufacturing, consumer goods, and industrial design, which heavily depend on design and intellectual property, are especially vulnerable.



How DLP Solutions Mitigate Risks

Implementing DLP solutions can significantly mitigate the risks associated with modern workplace applications. Here's how DLP helps:

1. **Protected Zones:** Data considered sensitive will be saved inside admin dedicated folders. While users can work freely on these files within the zone, whether they cannot export the files or content out of the zone will depend on each user's permissions or if required approval from supervisors, which can be managed and controlled within the DLP application.
2. **Comprehensive User Activity Logging:** Tracking and auditing user actions to monitor for suspicious activities and facilitate backtracking in the event of a data breach.
3. **Restricting Data Sharing:** Even if personnel have access to sensitive data, they are prevented from sending entire files or copying and pasting content to unauthorized internal or external parties using collaboration tools.
4. **Screen Protection:** Implementing screen watermarks and print screen protection on selected applications to prevent data leaks through screens and footage taken by user's mobile devices.
5. **Protecting Data on External Devices:** Preventing data leaks through external devices by restricting sensitive data, while allowing non-sensitive data to be freely used. Sensitive data cannot be transferred to external devices like USB drives or printers unless specifically authorized.

By understanding the risks associated with modern workplace applications and implementing robust DLP solutions, organizations can protect their sensitive data, ensure regulatory compliance, and maintain the trust of their customers and stakeholders.

Contact us for more details on how our DLP solutions can help your organization safeguard its data and stay compliant with data protection regulations.