BENEFITS OF AI-ENHANCED IAM, PAM, AND IGA ACROSS INDUSTRIES

BY PATECCO

AI IN IDENTITY AND ACCESS MANAGEMENT

- The adoption of Artificial Intelligence (AI) within Identity and Access Management (IAM), Privileged Access Management (PAM), and Identity Governance and Administration (IGA) is transforming cybersecurity strategies across a wide range of industries.
- By leveraging AI's capacity to analyze vast datasets, anticipate potential threats, and provide real-time detection, organizations can significantly strengthen their security framework, streamline operations, and ensure regulatory compliance.

FINANCIAL SERVICES

- **Real-Time Fraud Detection:** AI-driven IAM continuously monitors transactions to detect anomalies such as unusual behavior, flagging suspicious activity in real time to prevent potential fraud.
- **Dynamic Privileged Access Control:** Protects access to financial systems, customer accounts, transaction data, and trading platforms. Minimizes the risk of unauthorized access to critical financial data.
- **Automated Compliance and Risk Management:** AI-enhanced IGA automates access certifications, audit trails, and compliance reporting, quickly identifying excessive permissions or role conflicts. This reduces manual workload and helps institutions maintain regulatory compliance.
- **Outcome:** Stronger security, reduced risk, and continuous regulatory compliance.

INSURANCE

- **Fraud Detection and Prevention:**
  IAM continuously analyzes user behavior and transaction patterns to identify anomalies associated with fraudulent claims or unauthorized activity, enabling real-time alerts and rapid response.
- **Context-Aware Privileged Access Management:**
  Protects access to sensitive information such as policyholder data, financial records, and claims databases.
- **Automated Governance and Compliance:**
  IGA streamlines audits and compliance with regulations such as DORA and GDPR by automating access reviews, maintaining audit trails, and identifying policy violations.
- **Outcome:** Enhanced fraud detection, secure access to sensitive data, and streamlined compliance with regulations.

PHARMACEUTICALS

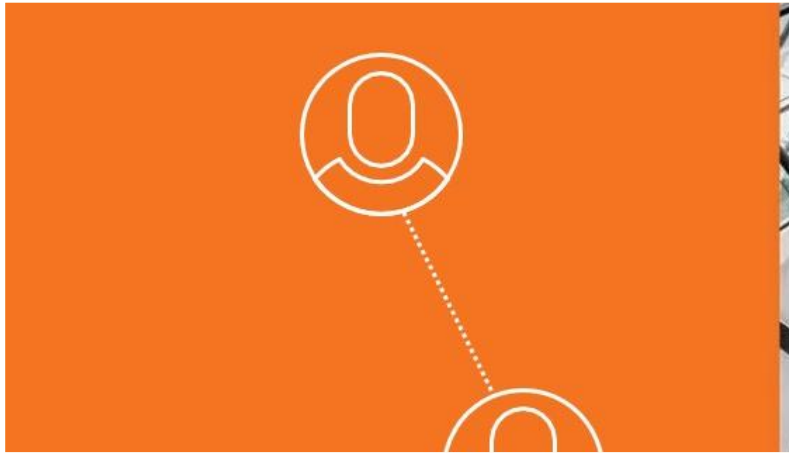
- **Secure Research Data Access:**
  IAM systems monitor access to proprietary research and clinical trial data, detecting unusual access patterns and preventing unauthorized use of sensitive information.
- **Privileged Access Management:**
  Protects sensitive data: Patient records, clinical trial data, IP (formulas, research). Detects credential misuse or privilege escalation before it becomes a breach.
- **Automated Compliance and Audit Readiness:**
  IGA simplifies compliance with regulations such as NIS2, HIPAA, and GDPR by automating access reviews, generating audit trails, and highlighting policy violations before they escalate.
- **Outcome:** Improved data protection, reduced risk of unauthorized access, and efficient compliance management.

ENERGY

- **Protection of Critical Infrastructure:** IAM monitors access to control systems and operational platforms, detecting anomalous behavior that could indicate insider threats or cyberattacks on critical infrastructure.
- **Privileged Access Management for OT and IT Systems:** Protects access to critical infrastructure systems like power grids, refineries, pipelines, and SCADA/ICS systems. Protects against cyberattacks that could compromise critical energy systems, minimizing operational downtime and financial impact.
- **Automated Compliance and Risk Oversight:** IGA supports compliance by automatically checking access rights and detecting unauthorized permissions.
- **Outcome:** Enhanced protection of critical infrastructure, secure OT/IT access, and streamlined compliance for resilient operations.

ENGINEERING

- **Protection of Intellectual Property:** IAM monitors access to design files, source code, and proprietary engineering data, detecting unusual access patterns and preventing unauthorized data exposure.
- **Controlled Privileged Access to Critical Systems:** Protects sensitive engineering data such as designs, blueprints, intellectual property, and proprietary software. Minimizes the likelihood of unauthorized access to critical systems, including CAD, PLM, and project management platforms.
- **Automated Governance and Compliance:** IGA automates access reviews, enforces role-based controls, and maintains audit trails, helping engineering organizations meet contractual, regulatory, and internal compliance requirements.
- **Outcome:** Secured intellectual property, controlled system access, and simplified compliance for efficient operations.



KEY TAKEAWAYS

- AI-powered IAM, PAM, and IGA enable proactive and adaptive identity security
- Real-time analytics and behavioral insights help prevent fraud and insider threats
- Automated governance improves compliance accuracy and audit readiness
- Context-aware and just-in-time access reduce the risk of privileged misuse
- AI-driven identity solutions support scalability and long-term digital resilience

Get in touch. We are ready to support.

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