Learn Critical Strategies for Securing Intellectual Property and CAD Files

Protect sensitive data • Prevent costly leaks • Ensure regulatory compliance

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Infosecurity Magazine

Speakers

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Peter Wood
Partner and Lead Consultant, Naturally Cyber LLP

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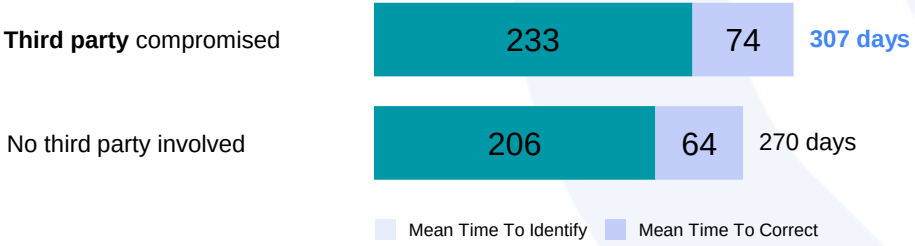
Data is most vulnerable when shared

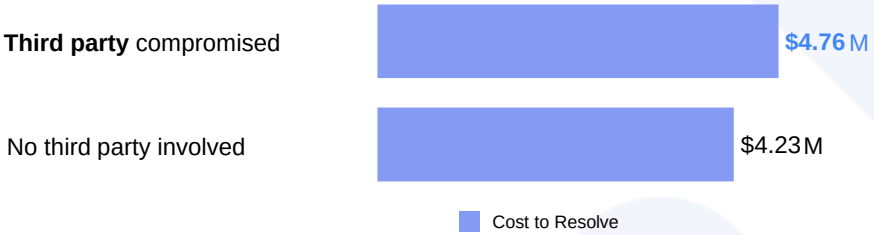
37 days longer

… to address breaches when shared



$470K more expensive

…to resolve when shared



Source: IBM Security, Cost of a Data Breach Report 2023

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Data is Vulnerable to Extraction and Misuse

> The US DOJ indicted seven members of a Russian Sandworm cyber-espionage group for stealing CAD files from a number of US defense contractors.”

VW Beetle

Porsche Macan

Toyota Land Cruiser

Ora Punk Cat

Zotye SR8

Hengtian L4600

> The US Federal Bureau of Investigation says that "the annual cost to the U.S. economy of counterfeit goods, pirated software, and theft of trade secrets is $225–$600 BILLION."

Reaction: “Promising” New Regulations

- Network and Information Security Directive 2.0 (NIS2 EU) – 10/17/2024
  - Affects critical infrastructure services, finance and certain manufacturing companies
  - Greater than 250 employees or €50M/yr in revenue
  - Similar goals to CMMC 2.0 for manufacturing

- Executive Order 14028 - Improving the Nation’s Cybersecurity - 5/12/2021
  - Zero Trust by default

- Cybersecurity Maturity Model Compliance 2.0 (CMMC 2.0) – Q1 2025
  - Secure the supply chain, protect Controlled Unclassified Information (CUI)
  - Affects defense industrial base (DIB) operators
  - NIST SP 800-171 controls – 15 domains

Application-Layer Data Protection and Timeline

2000s - Structured Data: Some Integration Required

- Database Encryption Methods
- MS SQL Server Encryption
- Data Tokenization
- Format Preserving Encryption (FPE)

2010 - Zero Trust is Born

- Database Level Authentication
- Encryption

2011 - Successful Industry Sponsored Example: Payments

- PCI-P2PE

2020s - Platforms for Unstructured Data Protection: Modern Workplace

- Google Workspace Client-Side Encryption
- M365 Microsoft Purview Information Protection (MPIP alias RMS, AIP, MIP)

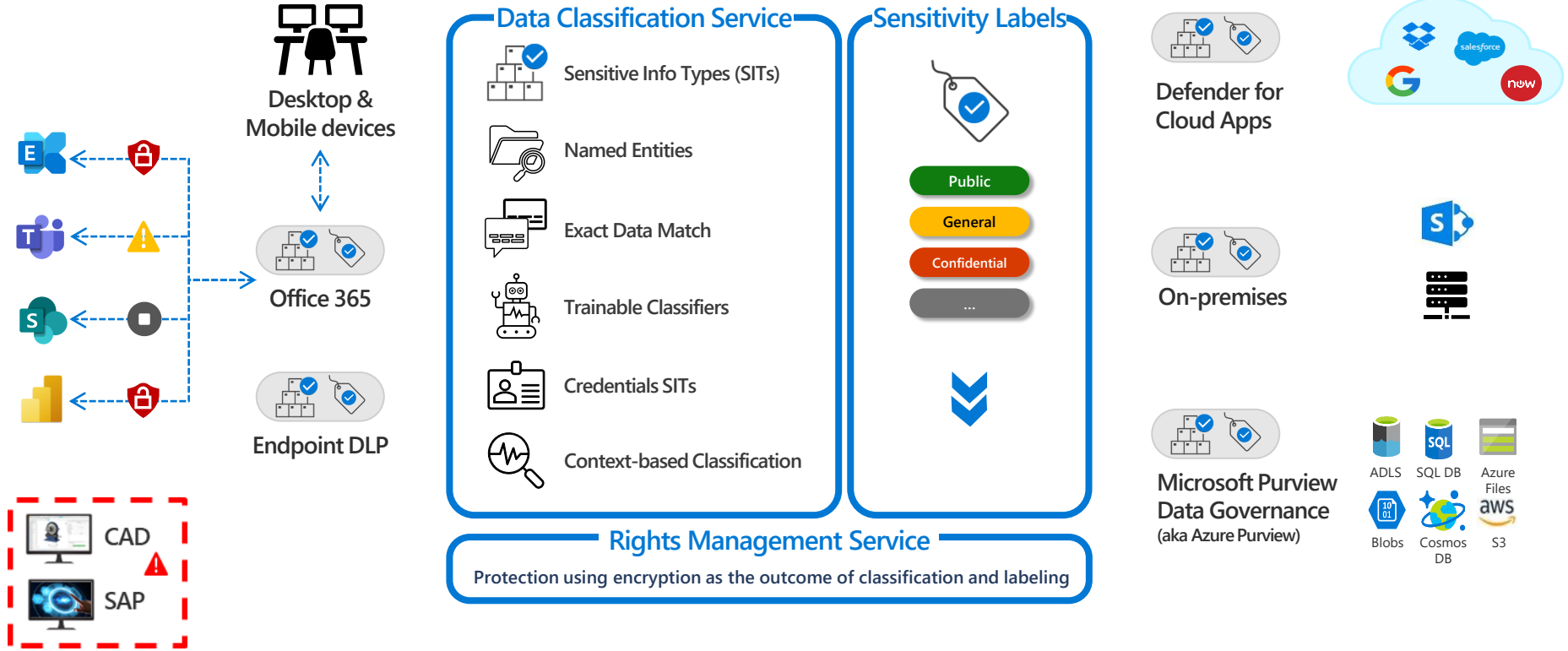
Managing Data with Microsoft Purview

- **Data Loss Prevention**
- Information Barriers
- **Information Protection**
- Insider Risk Management
- Privileged Access Management

- Data Catalog
- Data Estate Insights
- Data Map
- Data Policy
- Data Sharing

- Audit
- Communication Compliance
- Compliance Manager
- Data Lifecycle Management
- eDiscovery

Microsoft Purview Information Protection (MPIP)



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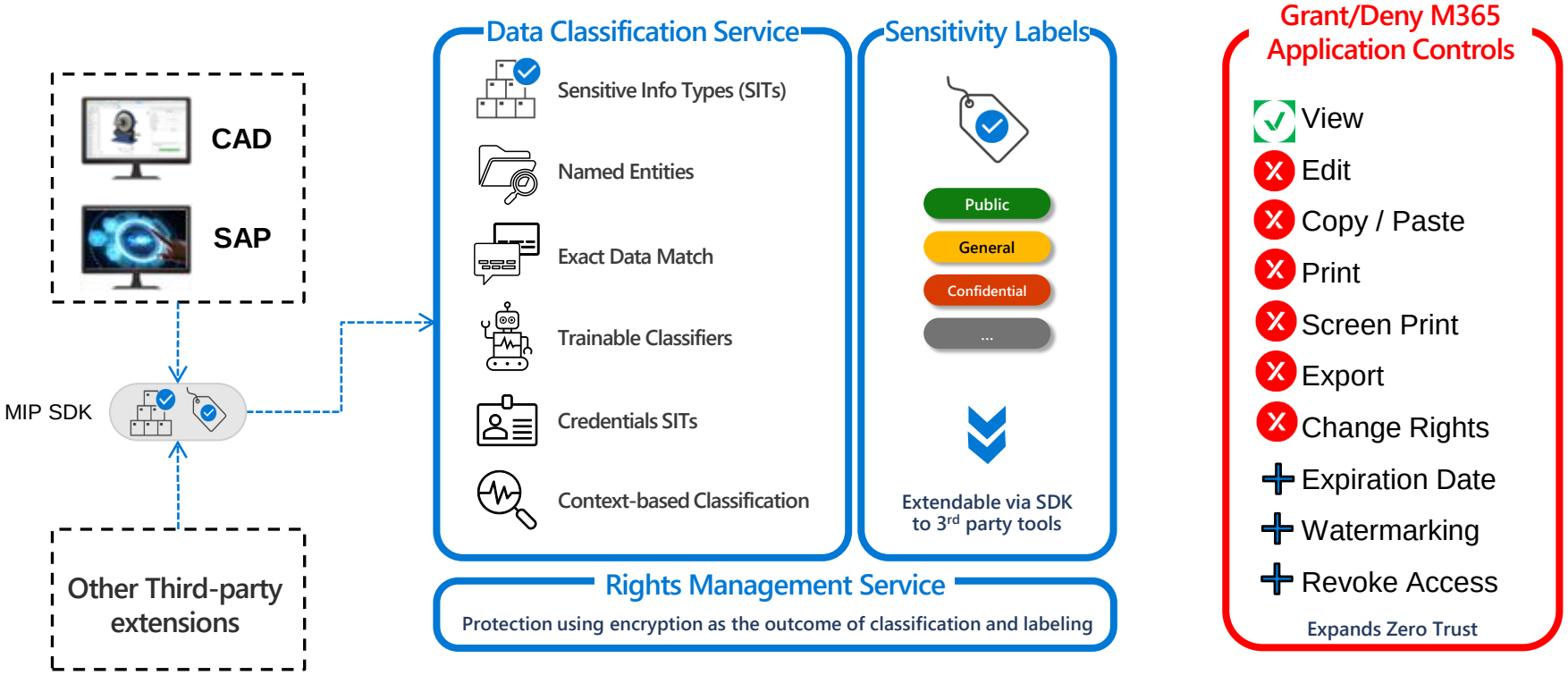
Extending MPIP Reach Using the MIP SDK



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CAD Application Use Case

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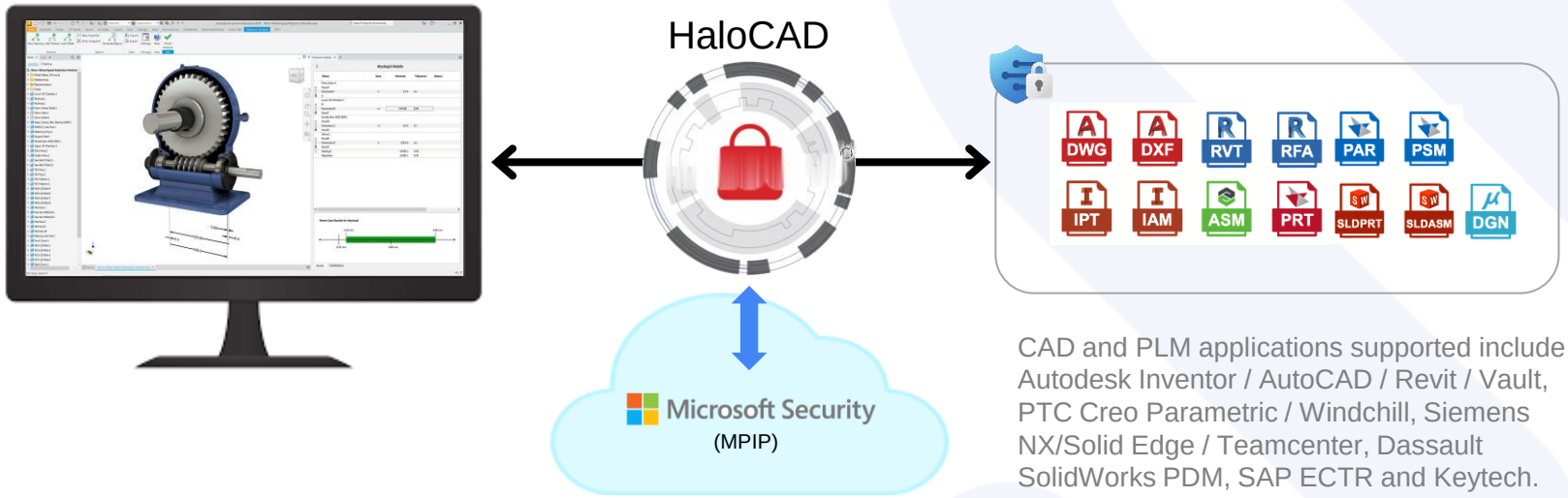
HaloCAD Plugs Directly into CAD and PLM Applications

Extend Microsoft Purview Information Protection to support multiple CAD file formats, automatically securing CAD/PLM data and **protecting your IP.**



CAD and PLM applications supported include Autodesk Inventor / AutoCAD / Revit / Vault, PTC Creo Parametric / Windchill, Siemens NX/Solid Edge / Teamcenter, Dassault SolidWorks PDM, SAP ECTR and Keytech. Planned support : Dassault DraftSight and CATIA.

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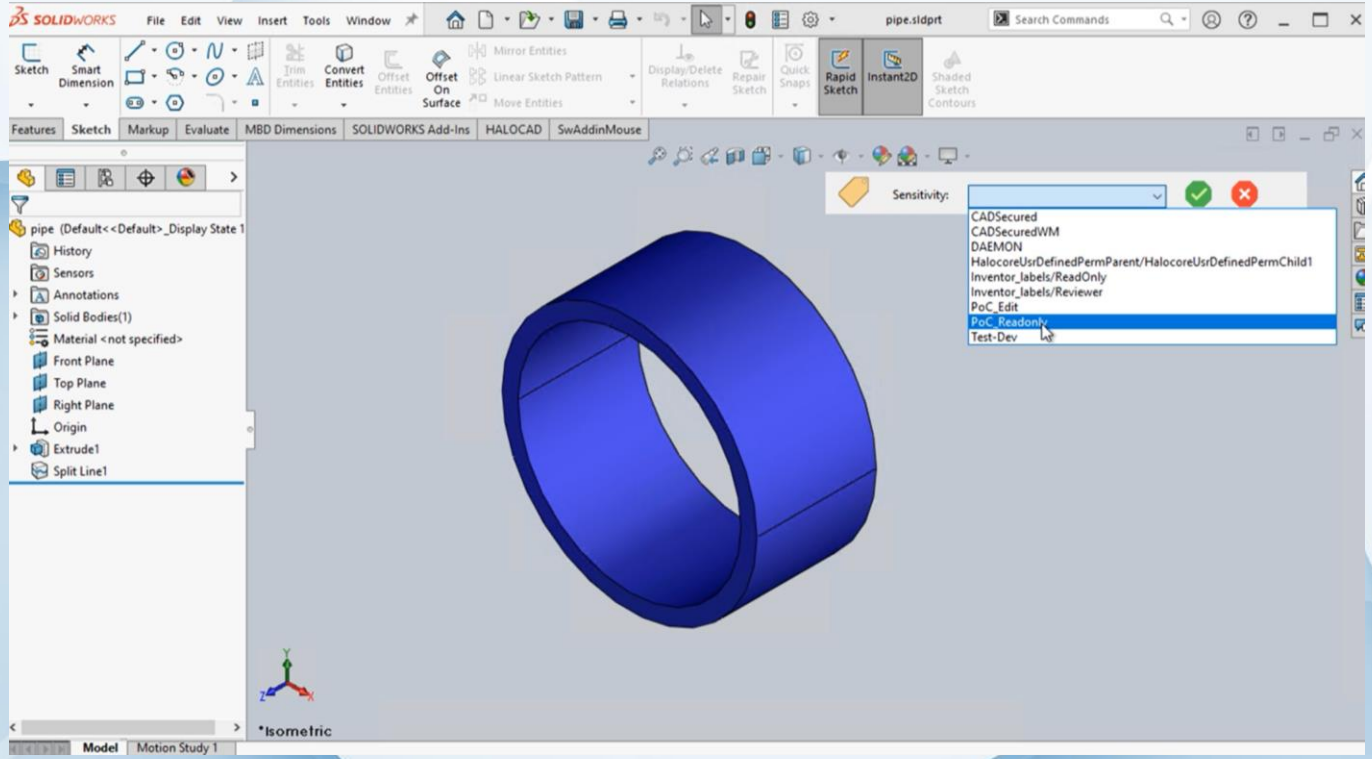
Example: HALOCAD for Dassault SolidWorks



Enabling Microsoft Purview Information Protection in Dassault SolidWorks

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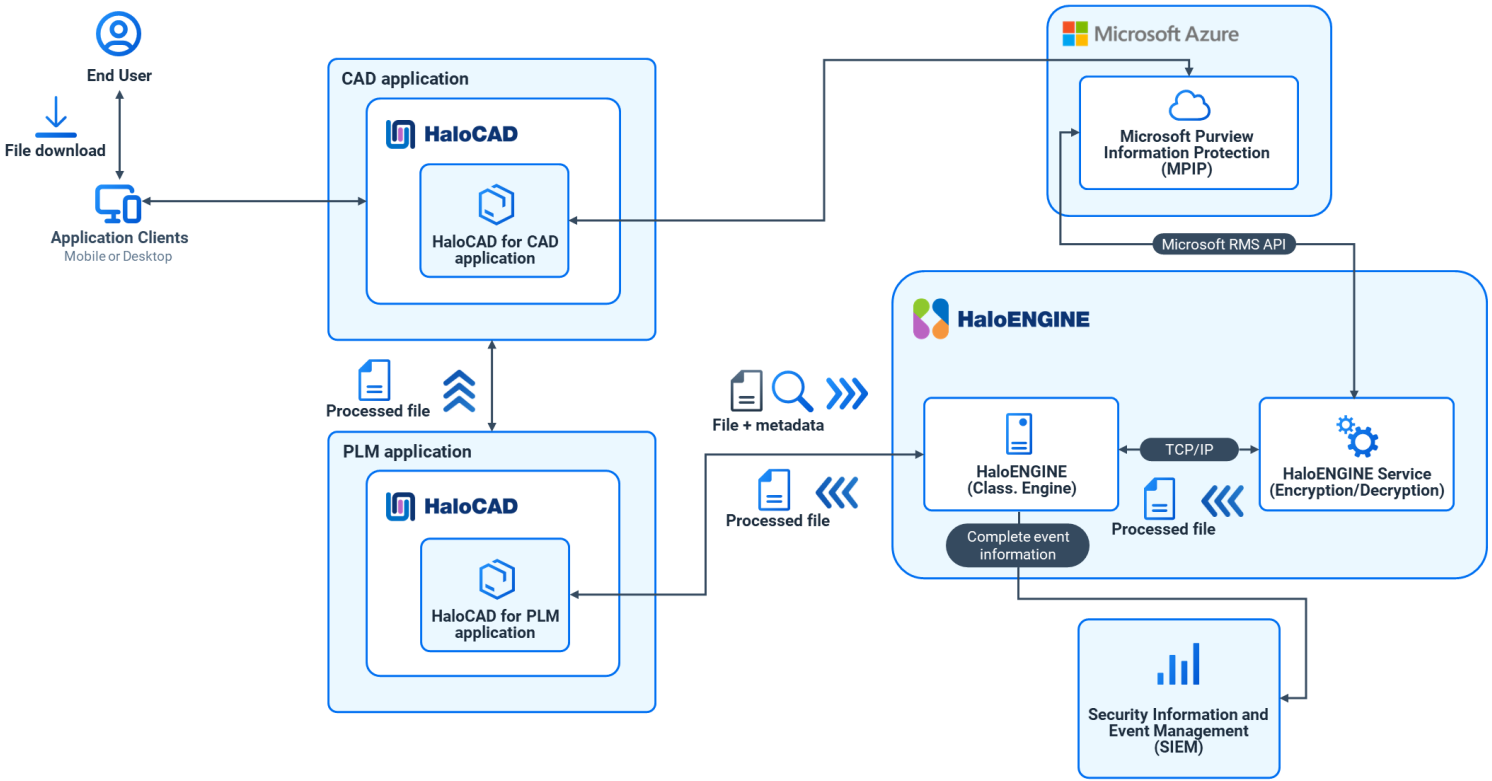
HaloCAD Architecture with Product Lifecycle Management (PLM)



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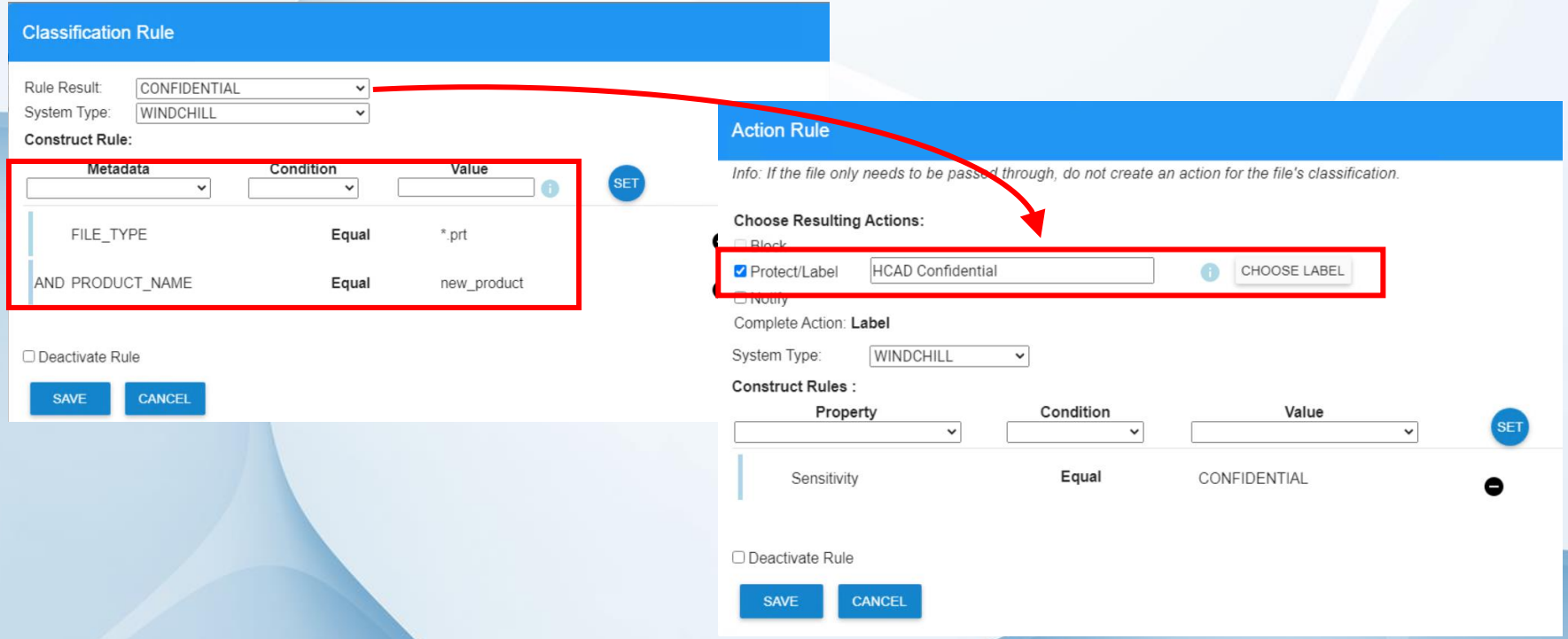
HaloENGINE: Mapping Security Controls from Product Lifecycle Management (PLM) to MPIP Sensitivity Labels



Automated mapping of access & usage controls to the corresponding MPIP label

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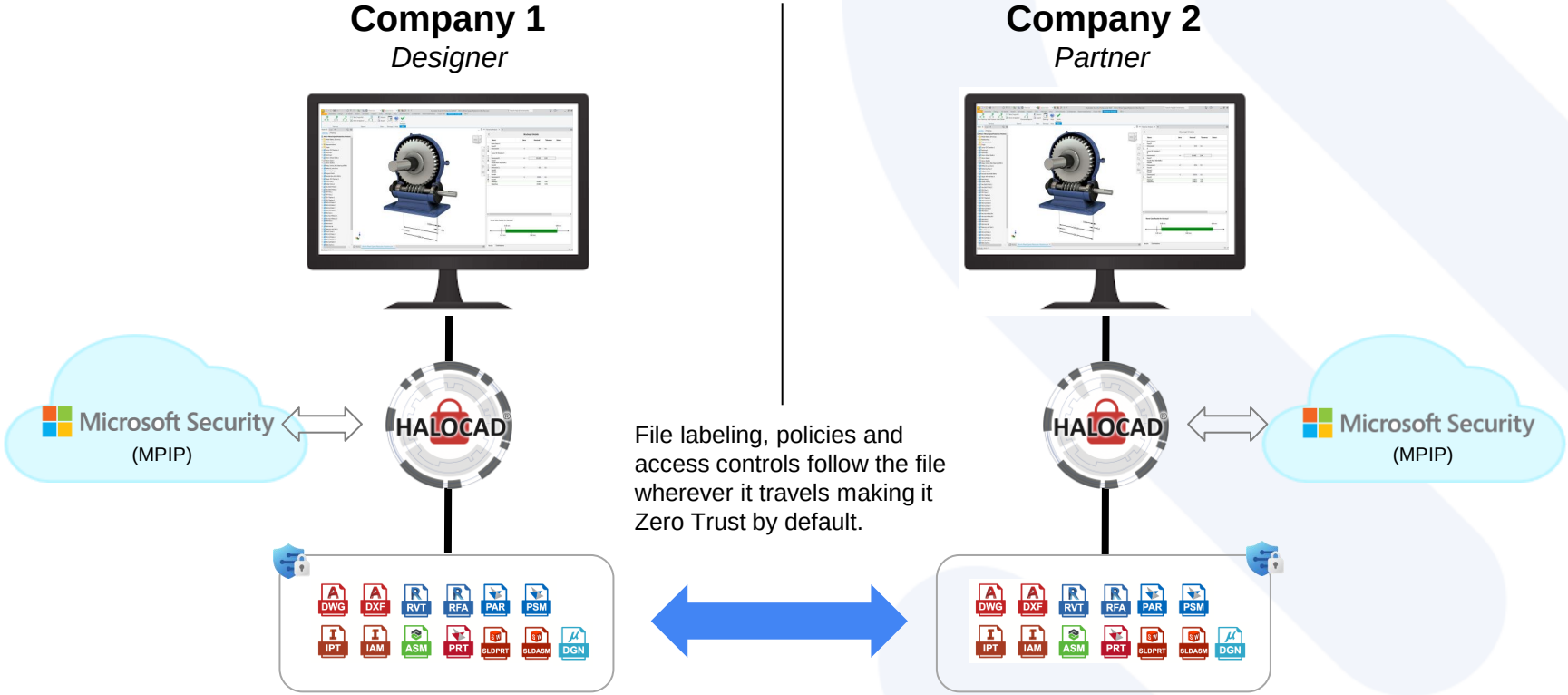
Secure CAD Collaboration

Extend Microsoft Purview Information Protection to CAD/PLM data, **secure the manufacturing supply chain**



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