

Learn Critical Strategies for Securing Intellectual Property and CAD Files

Protect sensitive data • Prevent costly leaks • Ensure regulatory compliance



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Intelligent Security Association



Infosecurity Magazine

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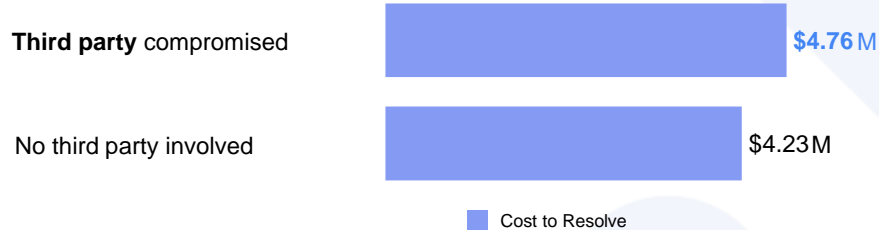
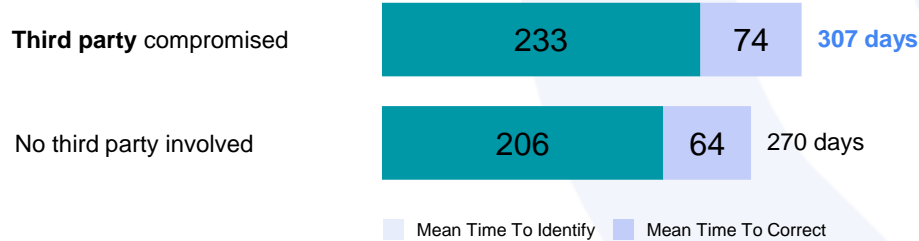
Data is most vulnerable when shared

37 days longer

... to address breaches when shared

\$470K more expensive

...to resolve when shared



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."

U.S. F-22 vs CHINESE J-20

F-22 Raptor (USA) vs **J-20 Mighty Dragon** (China)

- F-22 Raptor:** Thrust vectoring that repositions engine nozzles; No points on wings to stop radar detection; Metallic paint to deflect radar.
- J-20 Mighty Dragon:** Canards for increased maneuverability; No gun.

Feature	F-22 Raptor	J-20 Mighty Dragon
ARMAMENT:	<ul style="list-style-type: none">Two AIM-9 Sidewinder missilesSix AIM-120C Advanced Medium-Range Air-to-Air Missiles (AMRAAM)Two 1,000-pound Joint Direct Attack Munitions (JDAM)M61 Vulcan gatling gun	<ul style="list-style-type: none">Two PL-10 short range missilesFour medium & long range air-to-air missilesPrecision guided bombs & anti-radiation missilesNo gun
COST:	\$200M	\$100M
TOP SPEED:	1,500 MPH	1,500 MPH
NUMBER:	186	208
INTRODUCED:	2005	2018

Internal weapons bay to increase stealth



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

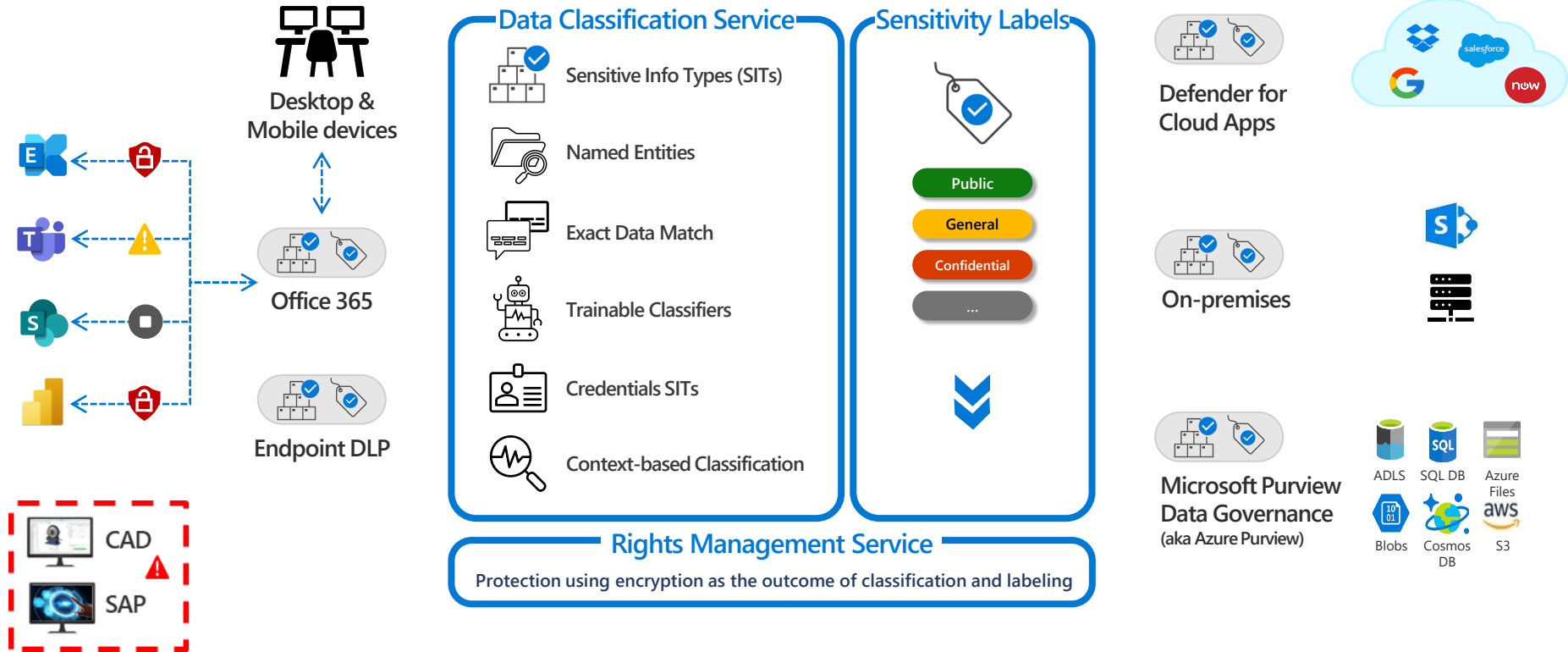


- **Data Loss Prevention**
- Information Barriers
- **Information Protection**
- Insider Risk Management
- Privileged Access Management

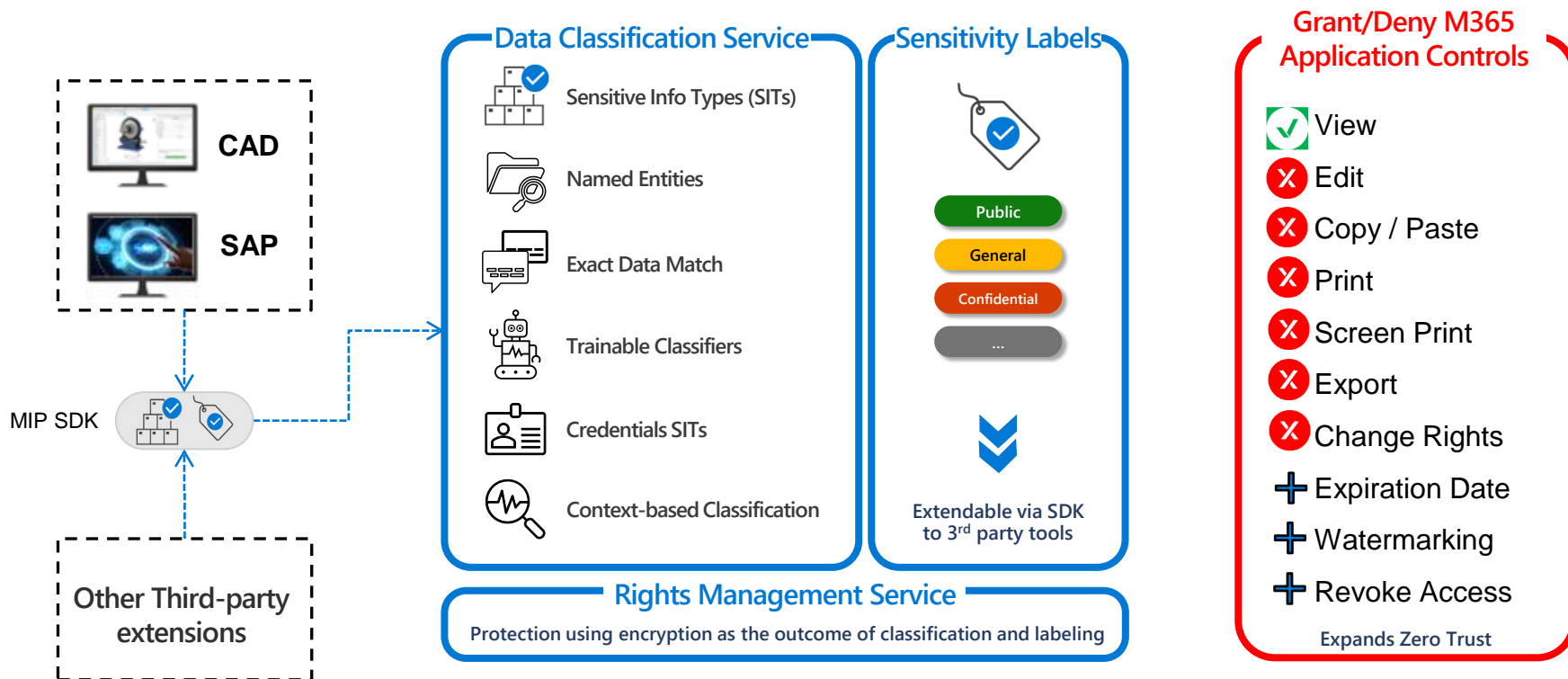
- Data Catalog
- Data Estate Insights
- Data Map
- Data Policy
- Data Sharing

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

Microsoft Purview Information Protection (MPIP)



Extending MPIP Reach Using the MIP SDK



CAD Application Use Case

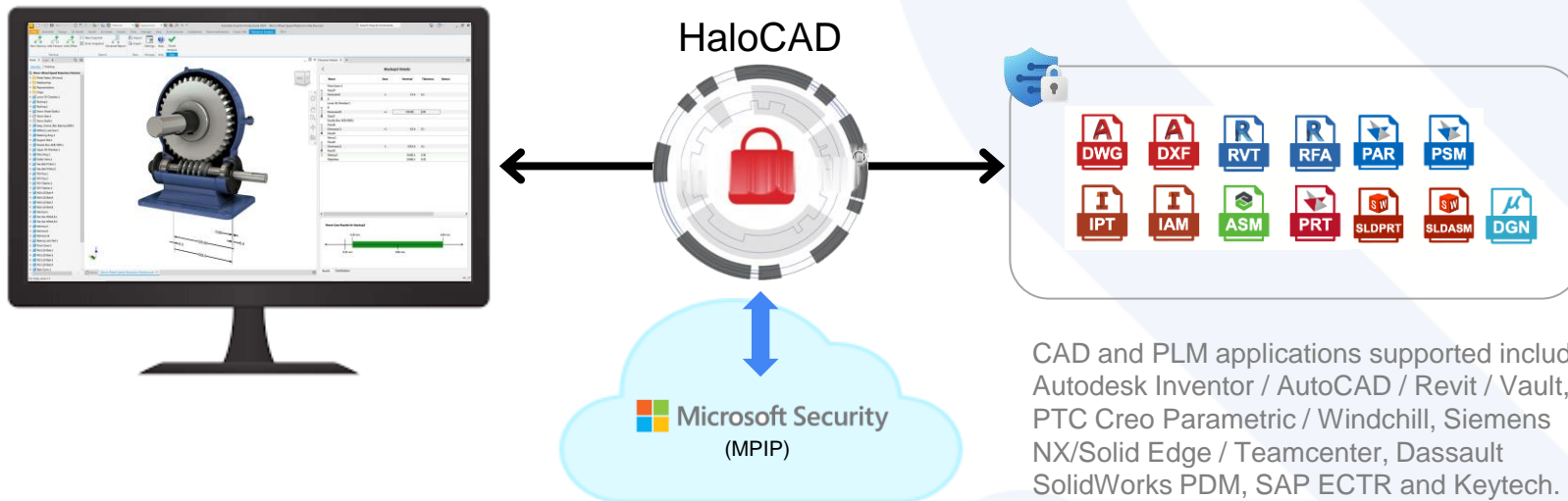


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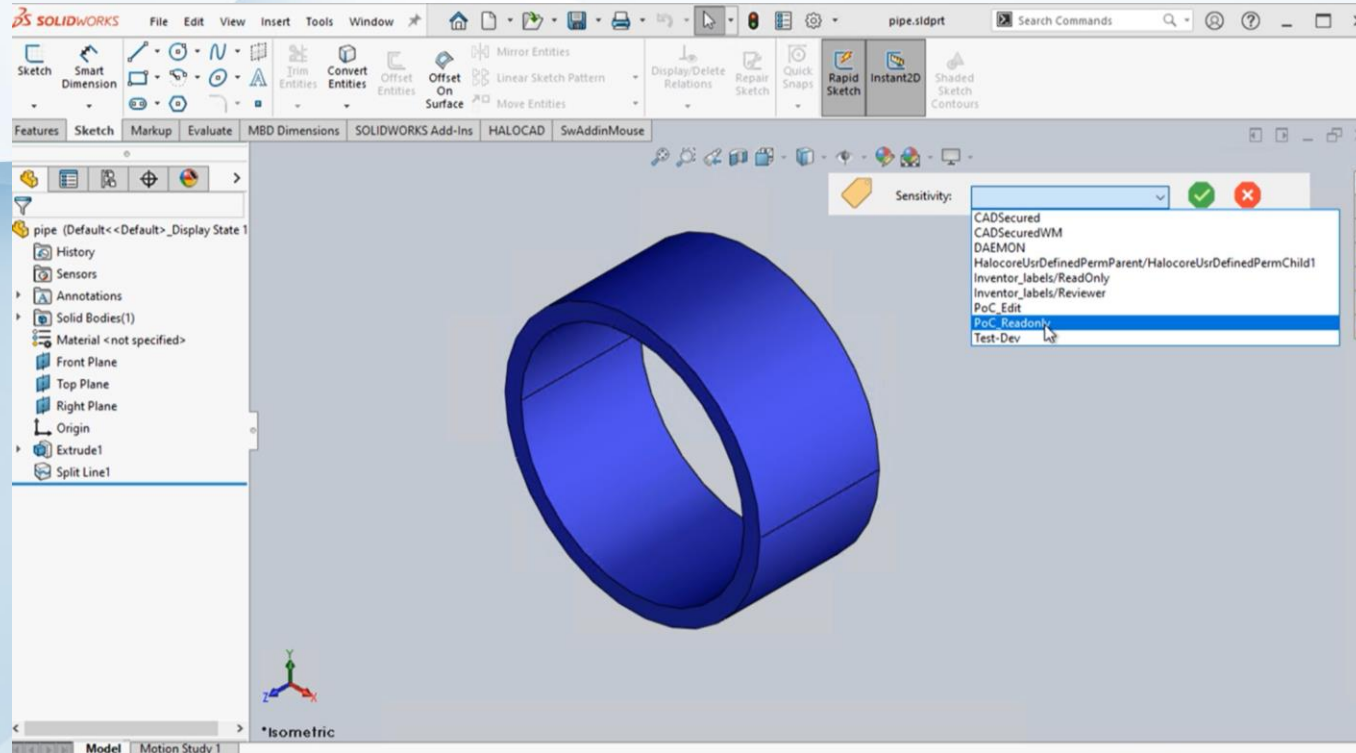
HaloCAD Plugs Directly into CAD and PLM Applications

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



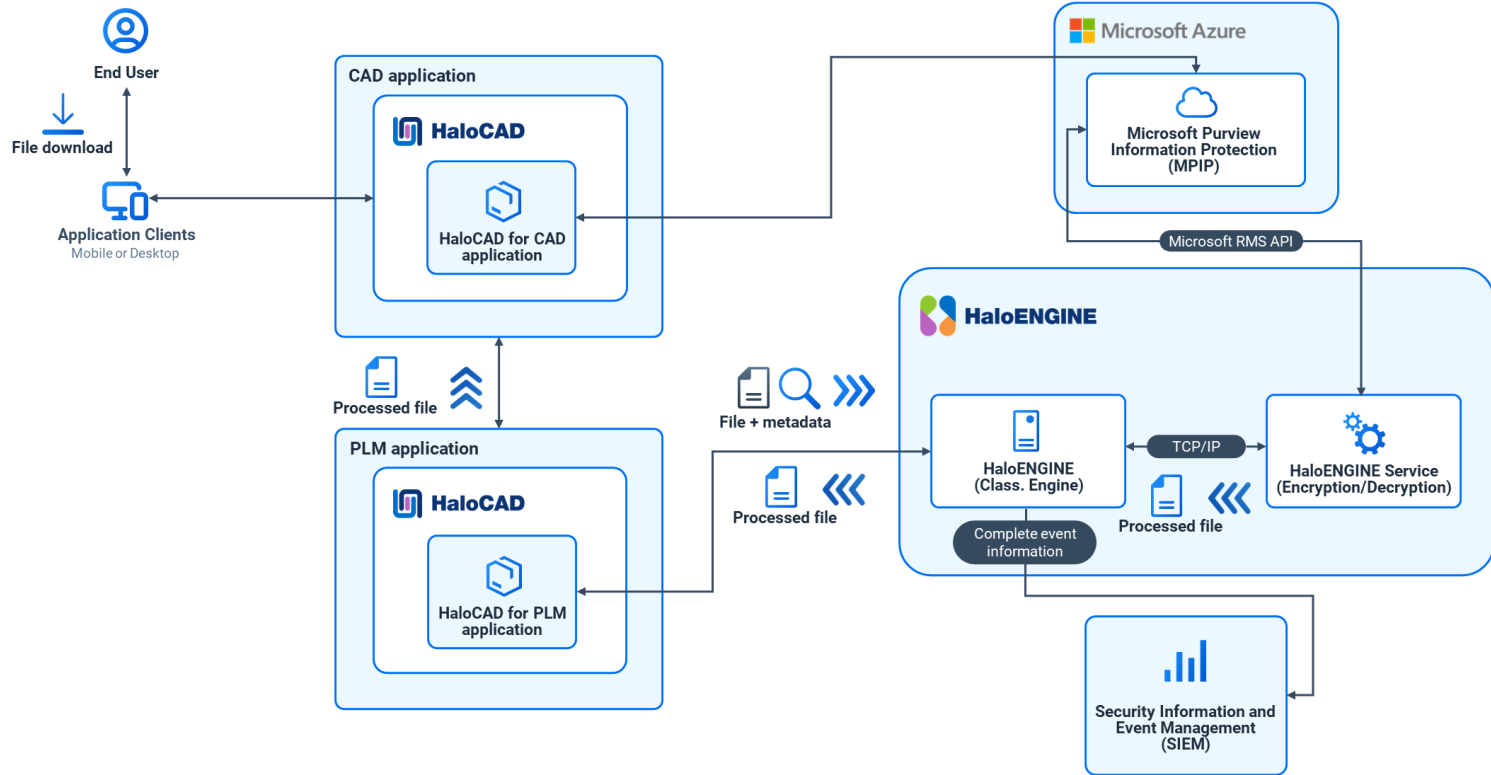
CAD and PLM applications supported include Autodesk Inventor / AutoCAD / Revit / Vault, PTC Creo Parametric / Windchill, Siemens NX/Solid Edge / Teamcenter, Dassault SolidWorks PDM, SAP ECTR and Keytech. Planned support : Dassault DraftSight and CATIA.

Example: HALOCAD for Dassault SolidWorks



***Enabling Microsoft Purview Information Protection in
Dassault SolidWorks***

HaloCAD Architecture with Product Lifecycle Management (PLM)



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

Classification Rule

Rule Result: CONFIDENTIAL
System Type: WINDCHILL

Construct Rule:

Metadata	Condition	Value
FILE_TYPE	Equal	*.prt
AND PRODUCT_NAME	Equal	new_product

Deactivate Rule

SAVE CANCEL

Action Rule

Info: If the file only needs to be passed through, do not create an action for the file's classification.

Choose Resulting Actions:

Block

Protect/Label HCAD Confidential CHOOSE LABEL

Notify

Complete Action: Label

System Type: WINDCHILL

Construct Rules :

Property	Condition	Value
Sensitivity	Equal	CONFIDENTIAL

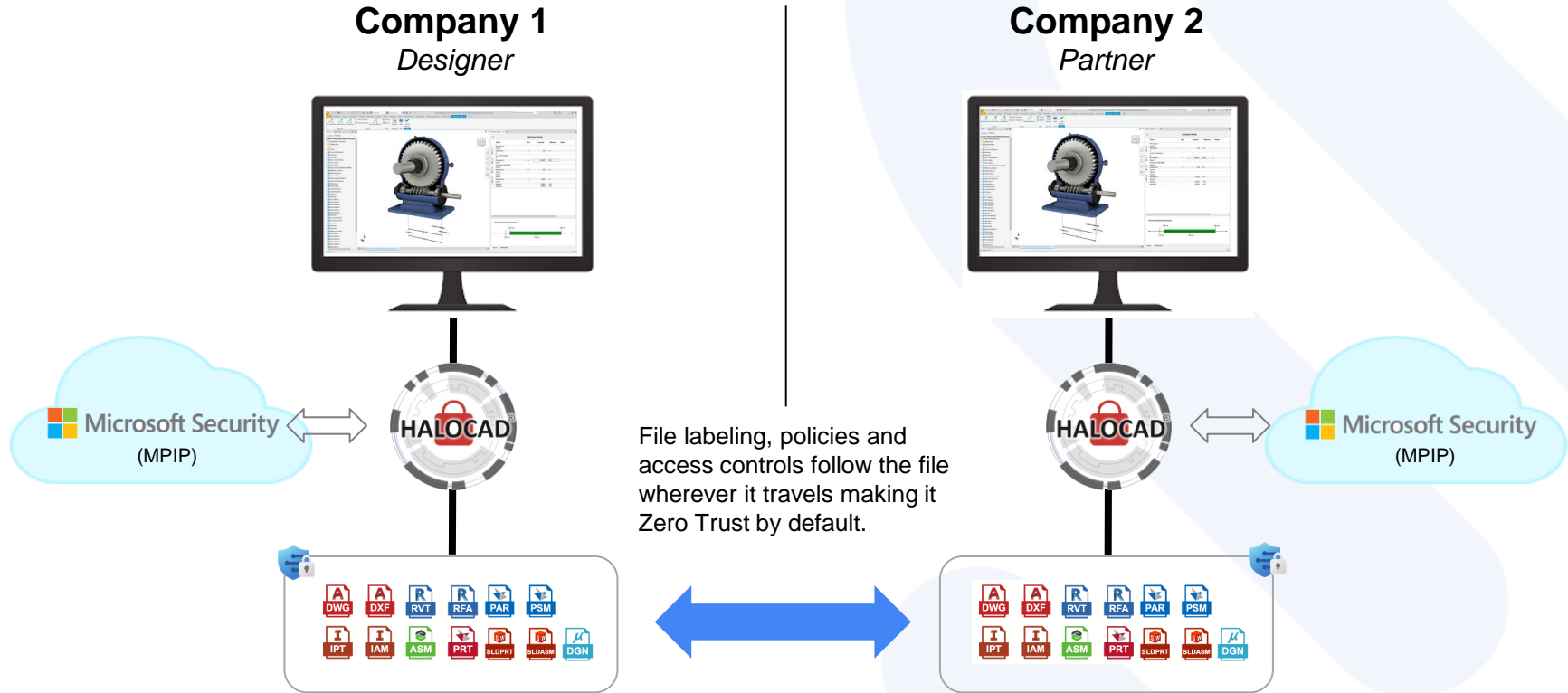
Deactivate Rule

SAVE CANCEL

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

Secure CAD Collaboration

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



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