



# MC2MC

A practical guide to Application Control for  
business

# Speakers



**Kim Oppalfens**

Founder, AppControl.AI



Kim.oppalfens@oscc.be



@thewmiguy



**Tom degreeef**

Founder, AppControl.AI



@tomdegreeef

1-2-3; 2-3; 1-3; 2-3

# Welcome

---

Benefits

---

The different starting Policies

---

A word on Policy Types

---

Intune as a Managed Installer & The ISG

---

The path rules

---

Handling Packaged Apps

---

SecurityCatalogs

---

AppControl.AI

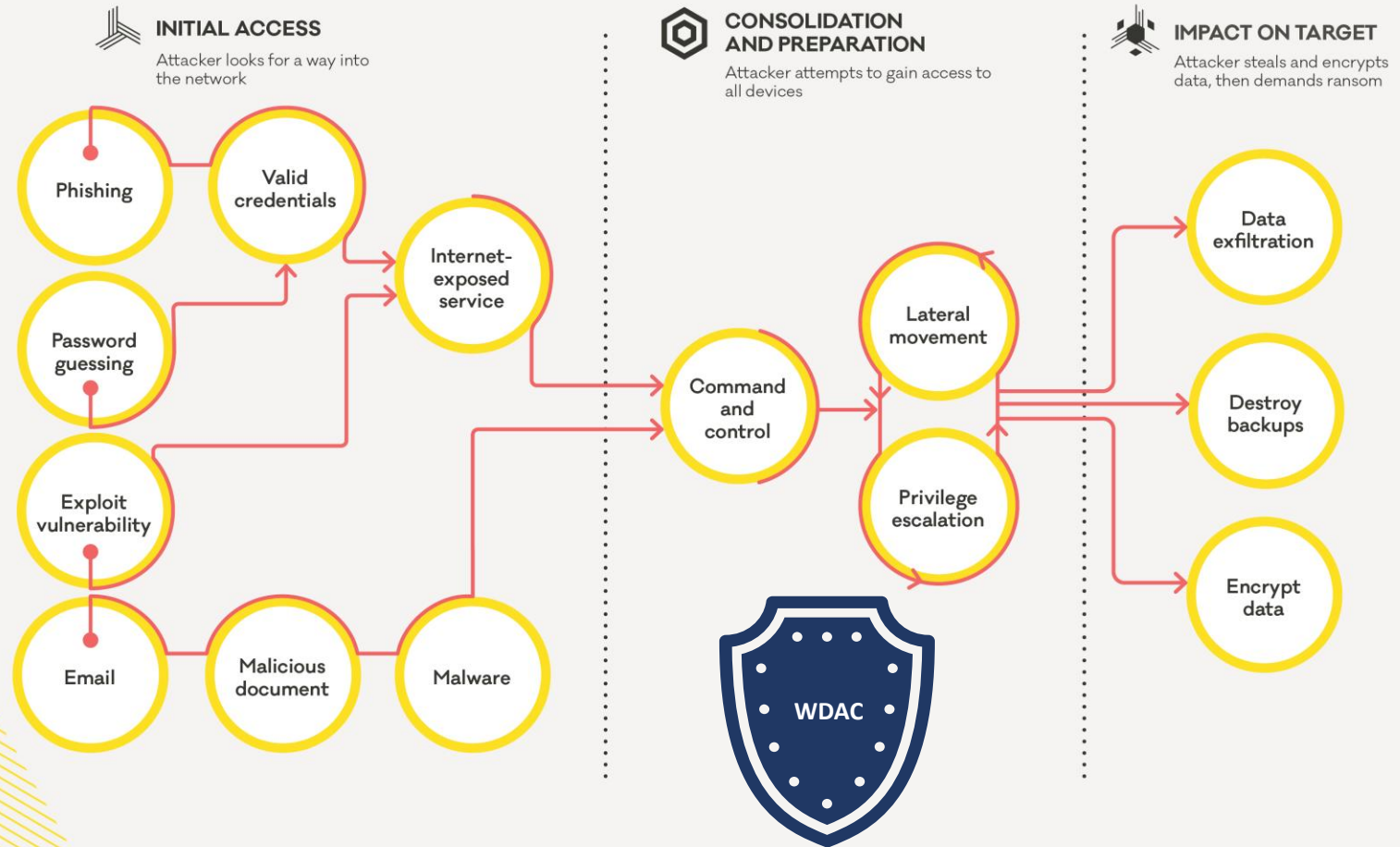
---

Training

# Benefits

## LIFECYCLE OF A RANSOMWARE INCIDENT

The common attack paths of a human-operated ransomware incident based on examples CERT NZ has seen.



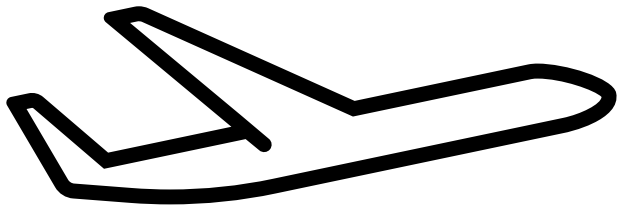
New Zealand Government

# The different starting policies

- Corporate Base policy
  - Supplemental Corporate signing policy
  - Supplemental Packaged apps also known as store apps policy
  - Optional: Supplemental Pathrule policy
  - Optional: Supplemental Publisher policy
  - Optional: Supplemental Self-updating app policies\*
- Security catalogs for applications
- Recommended block rule Base policy

# The Policy Options

## Getting started edition



Use the same Policy options across your base policies

0 - Enabled:UMCI

3 - Enabled:Audit Mode

**4 – Prevent “Flighted” builds (EG: Windows insider)**

6 - Enabled:Unsigned System Integrity Policy

9 - Enabled:Advanced Boot Options Menu

**12 – Required: Enforce Store Applications**

**13 – Managed installer**

16 - Enabled:Update Policy No Reboot

17 – Enabled: Allow supplemental policies

# Managed Installer

- Allow applications to run when installed by your Systems Management Solution\*  
(\*assuming they were installed after the managed installer was defined.)
- Limitations
  - Modifying files trusted based on Managed Installer extended attributes invalidates the trust
    - EG: Self-updating apps become untrusted after an update
  - Broken Process Trees
    - Windows Installer Custom Actions (WIX)

# Enabling the Managed Installer

[Home](#) > [Endpoint security](#)

Endpoint security | App Control for Business

Search

Favorites

App Control for Business

Overview

Overview

All devices

Security baselines

Security tasks

Manage

Antivirus

Disk encryption

Firewall

Endpoint Privilege Management

Endpoint detection and response

App Control for Business

Policies

Managed installer

To begin configuring the Intune Management Extension as a Managed Installer on all applicable enrolled devices in the tenant, select "Create". You can review the status of the policy in your tenant, and the number of devices where the policy succeeded or resulted in an error.[Learn more about how Intune sets the managed installer.](#)

+ Create

Refresh

Export

Columns

2 items

| Policy name ↑                                   | Author         | Status   | Succeeded ⓘ | Error ⓘ | Last modified ⓘ      |
|---|----------------|----------|-------------|---------|----------------------|
| <a href="#">Group based Deployment</a>          | Microsoft Corp | ✓ Active | 2           | 0       | 09/23/2025, 03:36 PM |
| <a href="#">SideCar ManagedInstaller Script</a> | Microsoft      | ✓ Active | 15          | 0       | 08/25/2025, 08:29 PM |

# Intelligent Security Graph

- Authorize Reputable Apps
- Geared towards organizations without Centralized software distribution capabilities
- Reputable != excluded from Malicious use
- Challenges
  - Python
  - Teamviewer
  - PSTools
  - Putty

# Demo: Create the Corporate Base policy

App Control Policy Wizard

Home

Policy Creator

Policy Type

Policy Template

Policy Rules

File Rules

Creating Policy

Settings

Configure Policy Template

Policy Rules

The policy rules are pre-set based on the template you have chosen.  
[Learn more about policy options](#)

Advanced Boot Options Menu

Managed Installer

Boot Audit on Failure

Allow Supplemental Policies

Require WHQL

Disable Flight Signing

Disable Script Enforcement

Update Policy without Rebooting

Disable Runtime Filepath Rules

Enforce Store Applications

Unsigned System Integrity Policy

Dynamic Code Security

Hypervisor-protected Code Integrity

User Mode Code Integrity

Invalidate EAs on Reboot

Intelligent Security Graph

Treat Revoked as Unsigned

Require EV Signers

Do you want to run this policy in audit mode?

Turning audit mode on will not enforce the policy. We recommend first running policy in Audit Mode prior to enforcement.

Audit Mode

It is recommended to run new policies in audit mode before enforcement to determine the impacts of the policy.

Next

M C 2

# Demo: Create the base recommended block rules policy

App Control Policy Wizard

Home

Policy Creator

Policy Type

Policy Template

Policy Rules

File Rules

Creating Policy

Settings

## File Rules

Create allow or deny rules for files based on publisher, path, file attributes or hash values.

### Policy Signing Rules List

+ Add Custom Rule

| Action | Level          | Name                                       | Associated Files                                  |
|--------|----------------|--|---|
| Allow  | Publisher      | MincrvptKnownRootMicrosoftTestRoot2010     |   |
| Allow  | Publisher      | Microsoft Product Root 2010 Windows ECU    |   |
| Allow  | Publisher      | Microsoft Product Root 2010 ELAM ECU       |   |
| Allow  | Publisher      | Microsoft Product Root 2010 HAL ECU        |   |
| Allow  | Publisher      | Microsoft Product Root 2010 WHOL ECU       |   |
| Allow  | Publisher      | Microsoft Product Root WHOL ECU SHA1       |   |
| Allow  | Publisher      | Microsoft Product Root WHOL ECU MD5        |   |
| Allow  | Publisher      | Microsoft Flighting Root 2014 Windows ECU  |   |
| Allow  | Publisher      | Microsoft Flighting Root 2014 ELAM ECU     |   |
| Allow  | Publisher      | Microsoft Flighting Root 2014 HAL ECU      |   |
| Allow  | Publisher      | Microsoft Flighting Root 2014 WHOL ECU     |   |
| Allow  | Publisher      | Microsoft Marketplace PCA 2011             |   |
| Allow  | Publisher      | Microsoft Flighting Root 2014 Store ECU    |   |
| Allow  | Publisher      | Microsoft Product Root 2010 RT ECU         |   |
| Allow  | Publisher      | MincrvptKnownRootMicrosoftDMDRoot2005      |   |
| Allow  | Publisher      | MincrvptKnownRootMicrosoftProductRoot2010  |   |
| Allow  | Publisher      | MincrvptKnownRootMicrosoftStandardRoot2011 |   |
| Allow  | Publisher      | Microsoft Flighting Root 2014 RT ECU       |   |
| Allow  | Publisher      | Microsoft Standard Root 2011 RT ECU        |   |
| Allow  | Publisher      | Microsoft Standard Root 2011 Enclave ECU   |   |
| Allow  | Publisher      | Microsoft Code Signing PCA 2011            | CN = Microsoft Corporation: ID FILEATTRIB_REFRESH |
| Allow  | Publisher      | MincrvptKnownRootMicrosoftTestRoot2010     |   |
| Allow  | FileAttributes | Original Filename: *                       |   |
| Allow  | FileAttributes | Original Filename: *                       |   |

☒ Merge with Recommended User Mode Block Rules - Remove Rule

☐ Merge with Recommended Kernel Block Rules

Next

Custom Rules

## Custom Rule Conditions

File Rules

Select the rule type, browse for the reference file and choose whether to allow or deny.

Rule Scope: ☐ Usermode Rule ☒ Kernel Rule

Rule Action: ☒ Allow ☐ Deny

Rule Type:

Rule Exceptions

Creates a rule for a file based on one of its attributes. Select a file to use as reference for your rule.

Reference File:

C:\Users\kim.oppalfens\Downloads\ChromeSetup (1).exe Browse

☒ Original filename:

☐ File description:

☐ Product name:

☐ Internal name:

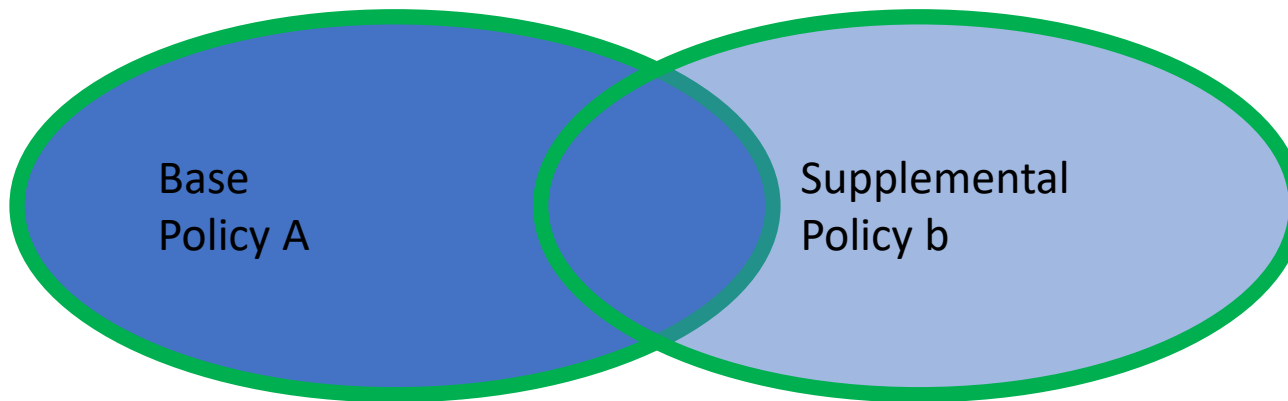
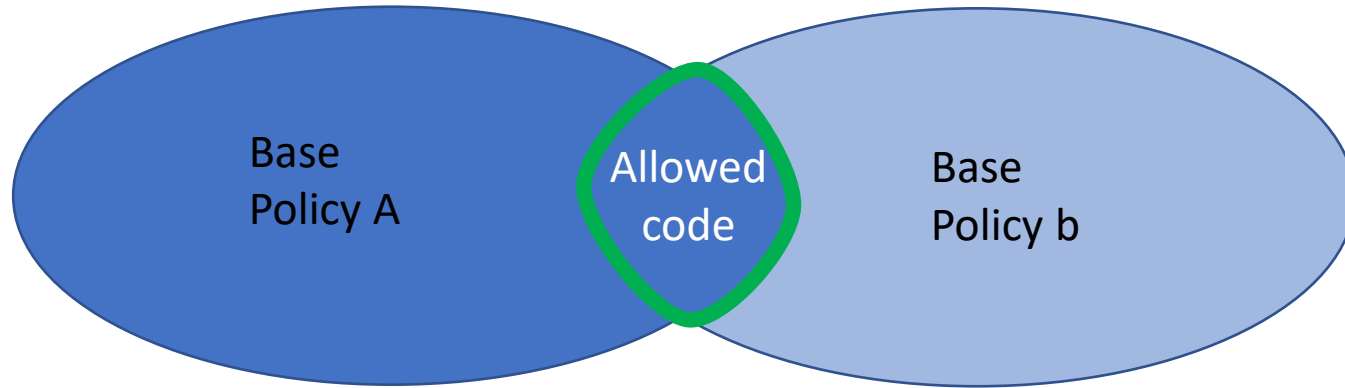
☐ Add ECU Rule:

☒ Use Custom Values

< Back Add Exception Create Rule Next >

# A word on policy types

Allowed Code marked in  
green thick line



Supplemental policies can only expand the trust scope so Deny rules can't be in Supplemental policies

# Supplemental Corporate signing policy



```
$cert = New-SelfSignedCertificate -Type CodeSigningCert -Subject  
'Application control signing cert' -CertStoreLocation Cert:\CurrentUser\my
```



```
Export-Certificate -Cert $cert -filepath appcontrolcert.cer
```



Create supplemental policy by browsing to .Cer file

# Demo: Create the supplemental Corporate Signing Policy

# Handling Packaged Apps

- Default Application Control policy trusts all store apps
  - Based on Enhanced Key Usage property on store signing cert that is part of the Default policy
- Create Package Family name based roles to effectively manage store apps
- Challenges
  - Python, PSTools, Teamviewer, yet again
  - [Electron Apps bypass as discovered by the IBM Red team](#)

# Demo: Create the supplemental PFN based packaged app policy

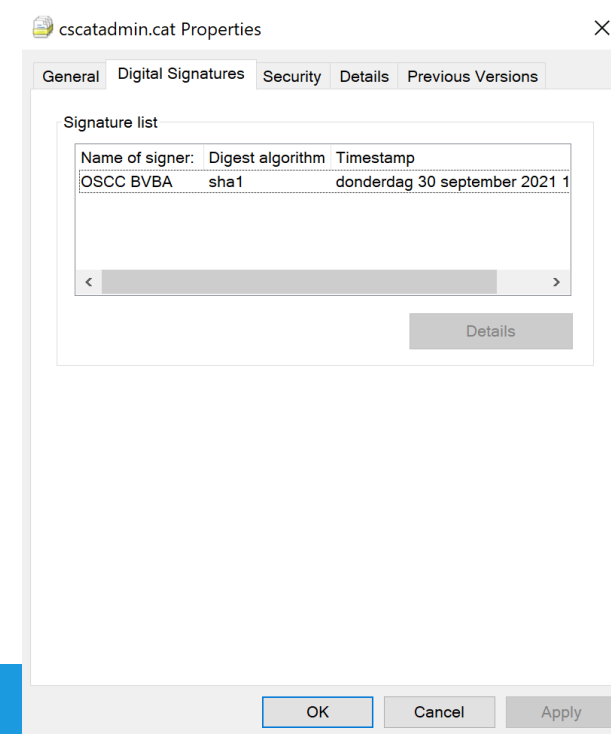
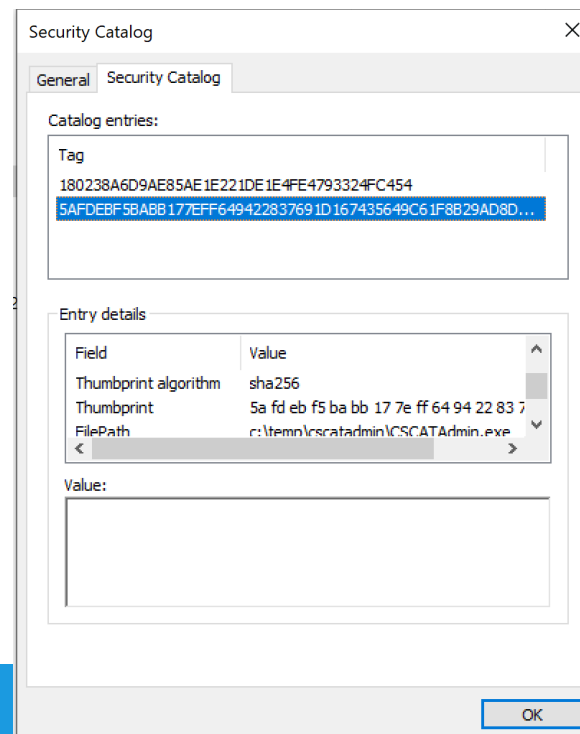
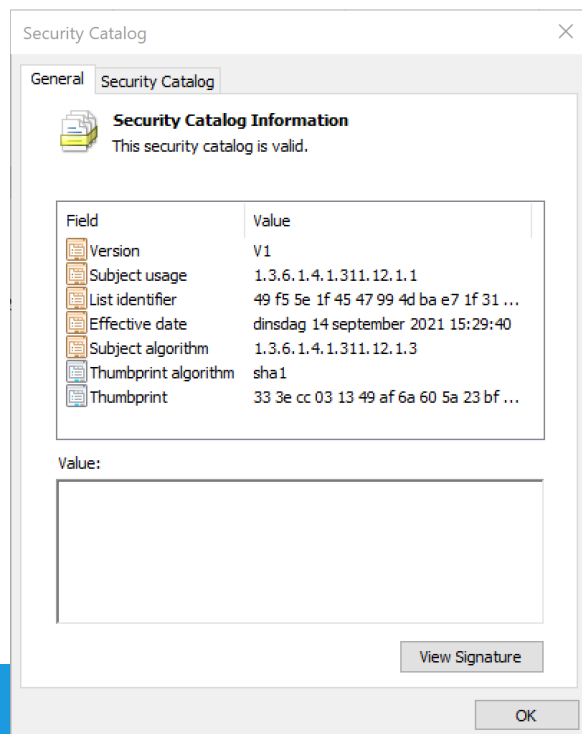
# The Path rules

- No Windows\\* Path Rule needed
  - OS Binaries are trusted by the Default policy and digitally signing
    - Applies to Classic Teams, Intune, Defender for Endpoint Agent, Onedrive & Edge too
- C:\Windows\Assembly\\*
  - Dotnet Native images (Performance penalty + Log Pollution)
- C:\Windows\Installer\\*
  - Increase managed installer success for MSI Custom actions
- Program files\\* & Program files (x86)\\*

# Demo: Create the path rules supplemental policy

# Windows Security catalog basics

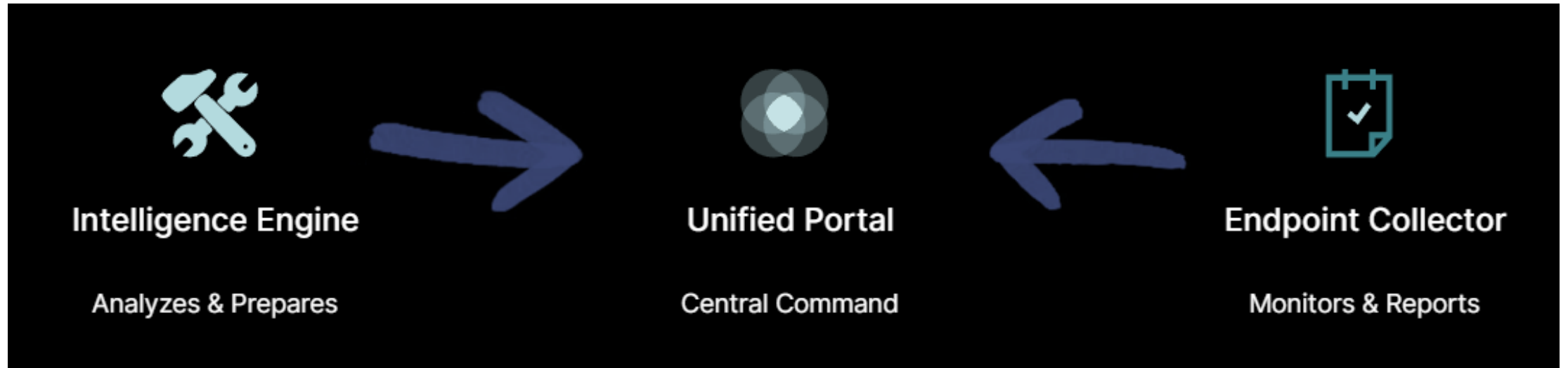
- .cat files, Introduced 2 decades ago with Windows 2000
- Enforcement started in Windows XP
  - Driver signing is Kernel Mode Code Integrity
- Windows Defender Application Control adds User mode Code Integrity



# Catalog use cases

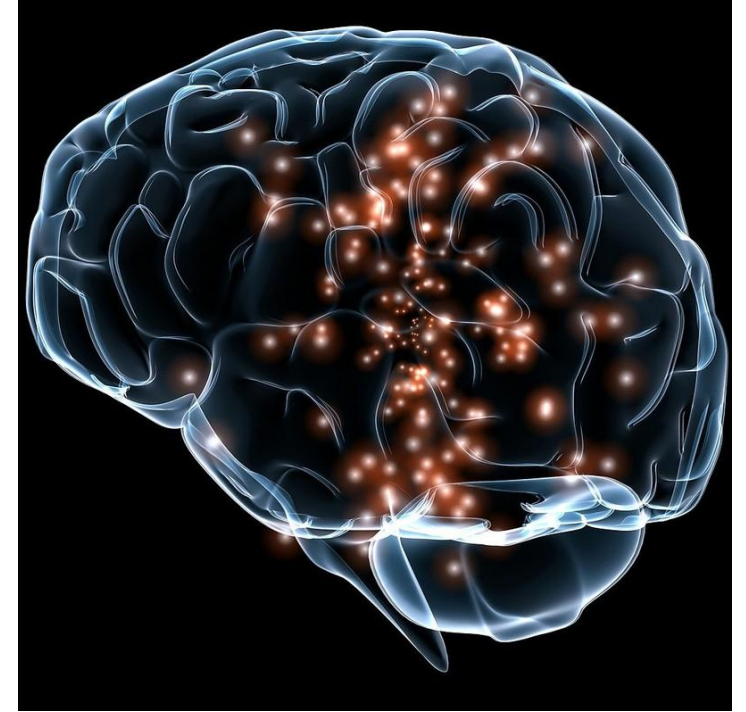
- Catalogs can make apps trusted without modifying your CodeIntegrity policy!
- Catalogs are great for
  - Unsigned binaries
  - Non-Greenfield scenarios / Managed Installer backlog
  - ConfigMgr Tasksequence installed applications
  - Quick go-to market applications
    - Repeatable procedure
  - Tight / manageable control
  - Application Control automation

# WWW.AppControl.AI



# AppControl for Business - Masterclass

- Dinsdag 12 Mei 2026 – 16:00-19:30
- Donderdag 14 Mei 2026 – 16:00-19:30
- Dinsdag 19 Mei 2026 – 16:00-19:30
- Donderdag 21 Mei 2026 – 16:00-19:30
- Dinsdag 26 Mei 2026 – 16:00-19:30



[academy.viamonstra.com](https://academy.viamonstra.com)

# We would love to hear your feedback!

Session feedback  
available in home feed  
of the app after the  
session



# Thank You!

