App-V Five-O
Will you accept the challenge?

Nicke Källén, 2014-03-14

Nicke Källén

- App-V MVP
- Based in Sweden
- Primary focus is application deployment
- Currently diving into AppModel, MSI and SCCM 2012

▶ Knowit

Challenge!

Count how many times Dan is written on my slides!
(this slide is included)

Five-O SP2

Easy to sequence

Change of Best Practice

VC++ detected by sequencer

PVAD not recommended!

Five-O SP2 HF2

Major step forward for compability

Great new extensions!

Not quite feature parity

Four-O still trumps someplaces

Permissions for VFS

-Dan Saves the day!

Network access required by Computer
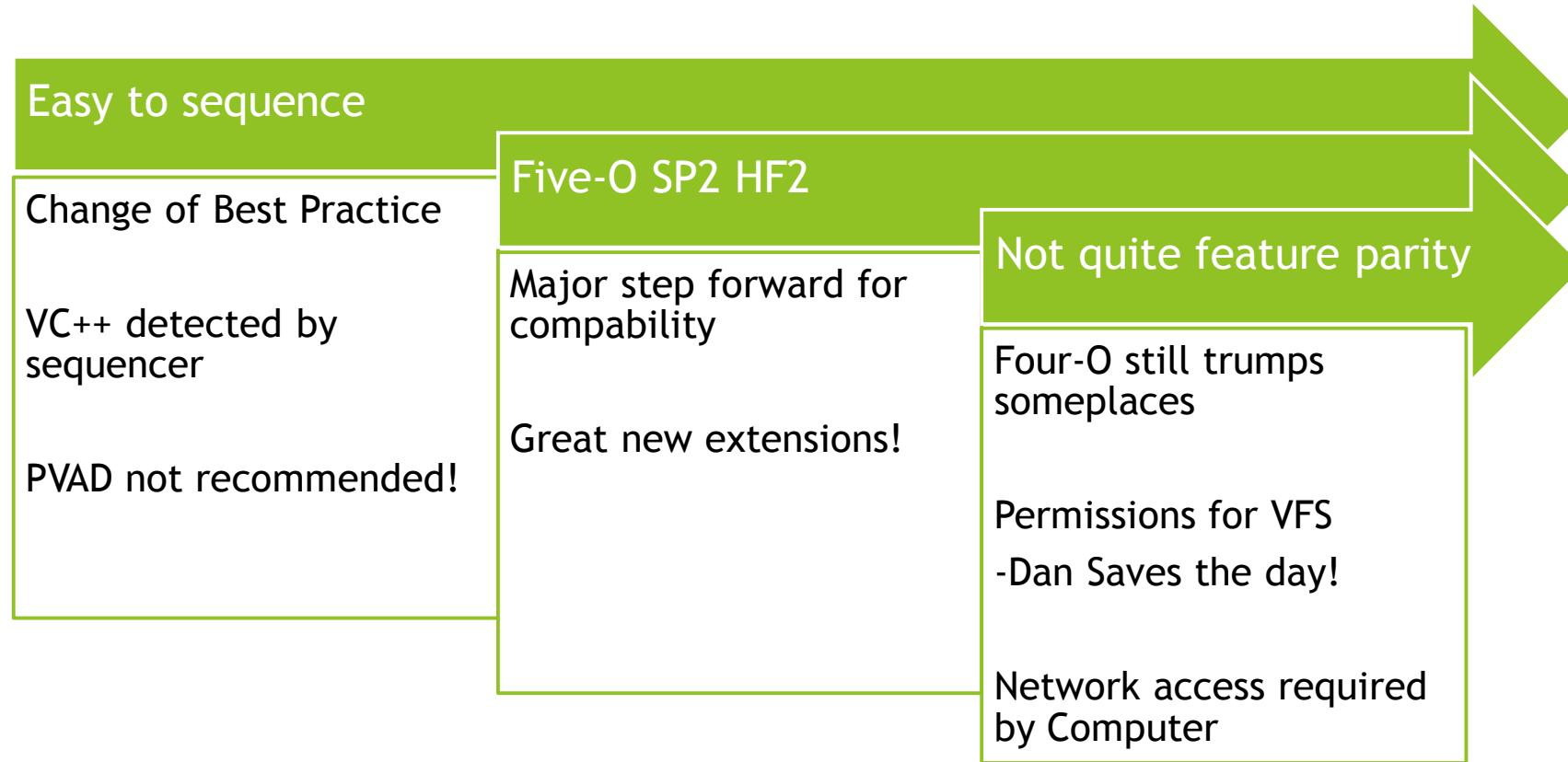
Five-O Base

App-V 5.0 SP2 Sequencer

Office – No Office?
- Virtual Extensions changes the game
- Include Office!

.NET Framework

Windows – match architecture to your OS
- Disable UAC
- Dan Explains why!
- http://packageology.com/2013/06/app-v-5-uac-file-virtualisation-virtualstore/

Five-O Sequencer

▶ Detects VC++

  ▶ Avoids us installing 26+ different VC Redist

Description	Resolution
⊟ Issues that may affect full package functionality (1)	
⚠ Files excluded from package.	Verify package functionality.
⊟ Additional information (1)	
ⓘ Visual C++ Runtimes detected.	

  ▶ Performance hit when deploying. If not available, it will be installed natively

Virtual Extensions

- ▶ New extensions
  - ▶ Run IExplore and Explorer virtual

EnableDynamicVirtualization   0x00000001 (1)
ProcessesUsingVirtualCompo...   %SystemRoot%\explorer.exe %ProgramFiles%\Internet Explorer\iexplore.exe %ProgramFiles(x86)%\Internet Explorer\iexplore.exe

  - ▶ Office can be enabled through RunVirtual!
    - ▶ If Office is not part of core –sequencer, what happens?

Virtual Extension	Match OS seq / target	Req Global Publishing	Version
Shortcut			4
File Type Association			4
URL Protocols	X		5
AppPaths	X		5
COM Mode			5
Software Client	X		5
Application Cap.	X	X	5
Context Menu	X	X	5
Drag-n-drop	X		5 SP2
Data Object	X		5 SP2
Property sheet	X		5 SP2
Infotip Handler	X		5 SP2
Column Handler	X		5 SP2
Shell Extensions	X	X	5 SP2
BHO	X	X	5 SP2
ActiveX Object	X	X	5 SP2

Five-O Packages

- ▶ Primary Virtual Application Directory
  - ❑ Sequencer tells you;
    - ○ Select the installation-folder of your application
  - ❑ Sequencing Guide
    - ○ Select the installation-folder of your application
  - ❑ Microsoft Consulting Service (Gladiator)
    - ○ Select Fake PVAD!
  - ❑ Nicke Källén Says;
    - ○ Select Fake PVAD!

Five-O Packages

Fake PVAD!

For CG and Plugins!

Great starting point!

Five-O Reboots
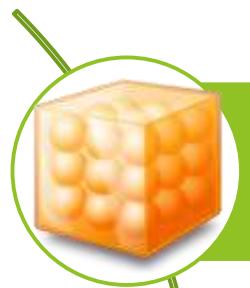
Reboot!
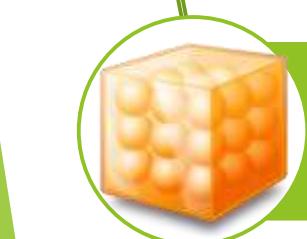
Avoid installer reboots

You reboot!

Five-O Packages

Keep 'em DIIRTY! (Dan says so!)
"make sure you leave at least one file or empty folder in the VFS!"

Use Exclusions!
(link on my blog after talk)

Great starting point!
Understand why you clean things!

Five-O Packages
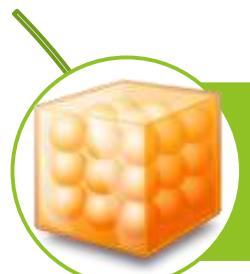
Group Policy wins!
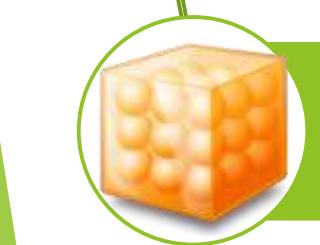
You can capture, but client will not apply!

Dan says; "remove policies from global exclusion on client"

Five-O Packages

*no this isn't said by Dan, so I am not sure I want to recommend it

Fonts decrease performance

Exclude and deploy natively

File Summary

Files accessed during trace:

By Path | By Folder | **By Extension**

Extension	File Time	Total Events	Opens	Closes	Reads
dll	78.7774715	29 286	6 399	3 946	3 17
otf	42.2148733	71 356	18 823	9 707	30 02
⊞ <none>	21.9827693	345 378	152 014	110 407	48
⊞ 8bf	12.5324390	9 483	4 496	2 304	1 12
⊞ 8bi	12.4519601	2 451	860	460	73
⊞ EXE	11.7391822	1 697	16	20	1 64
⊞ lcp	7.9697401	20 613	7 608	5 072	64
⊞ DLL	5.6681204	1 552	913	110	26
⊞ icc	3.8407754	6 049	2 034	1 361	1 38
⊞ DAT	2.0846143	1 180	5	1	1 17
⊞ 0	1.2862129	24 197	14 619	6 373	

Five-O Shortcuts

.BAT? Use CMD.EXE /C (Dan said this!)

Link to native app? Will be nativeapp.exe /appvve PKGGUID_VERSIONGUID

Five-O Config-files

Use App-V Configuration Editor

Bug in 5.0 SP2 -> Scripts work only with domain accounts

Five-O Config Files

Five-O Office 2013

- Generated PKGs

- Single Pkg GUID
    - How do you deploy Visio / Project?

- Only supported for Global publishing

- Don't edit with sequencer!
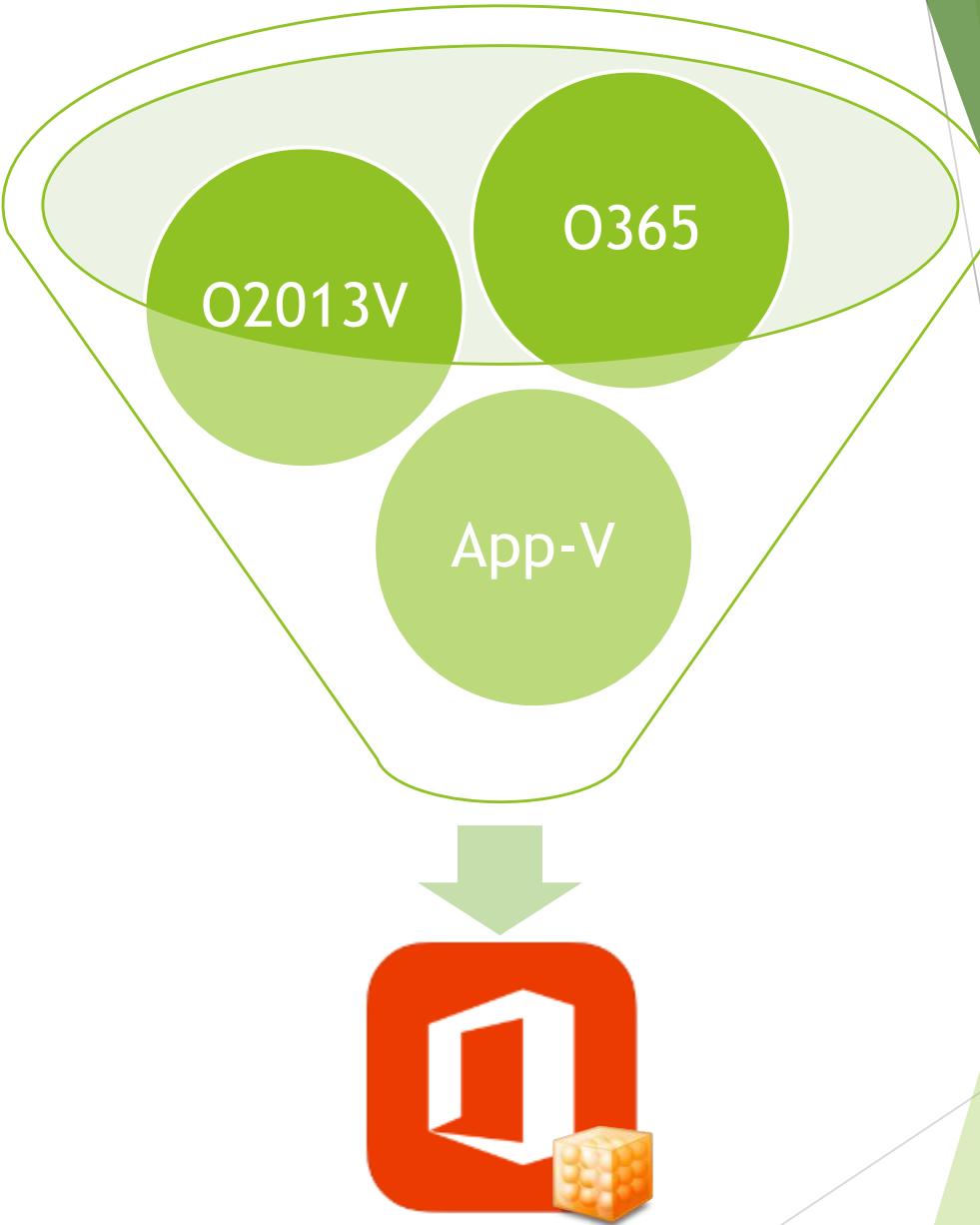
Five-O SP2 HF2

- Is it the step forward?

Four-O
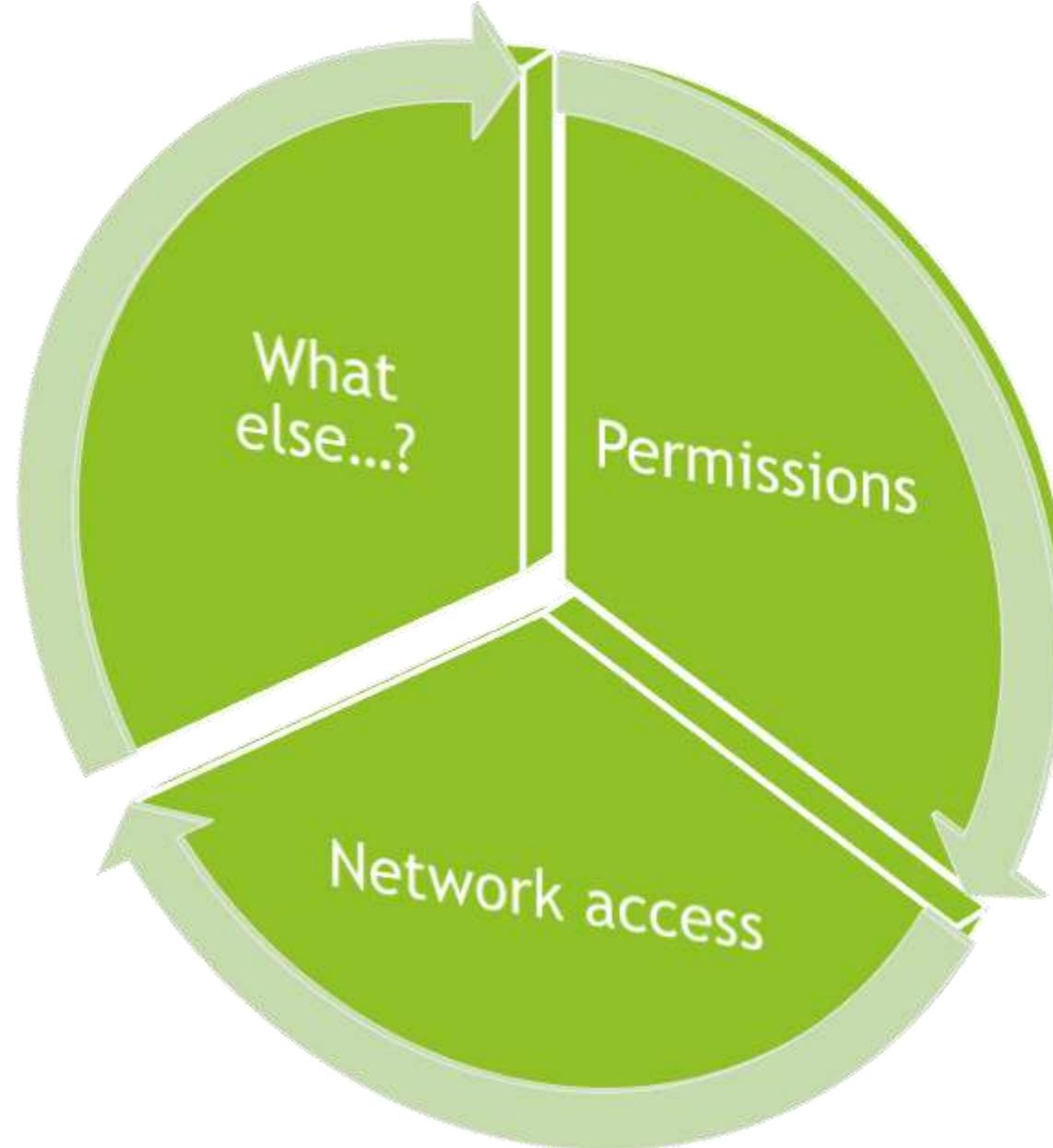
And the winner is…

- Thanks for having me