



Citrix AppDNA

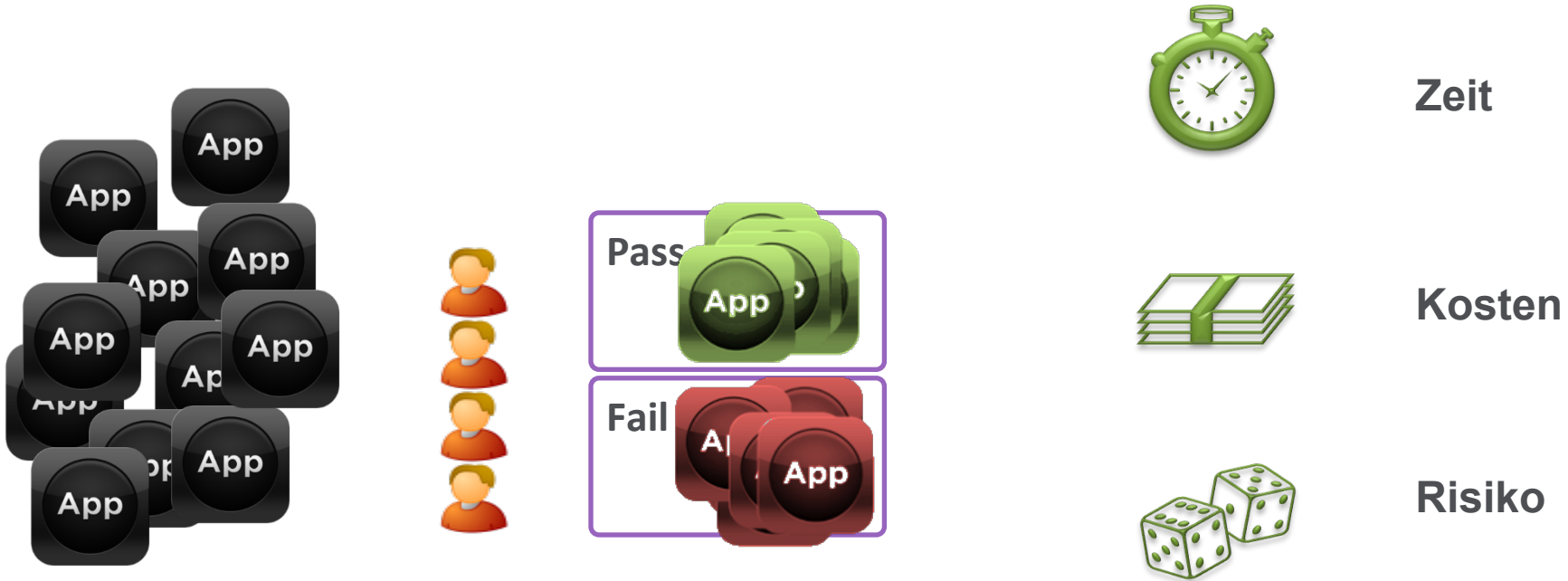
Laurent Strauss, Systems Engineer



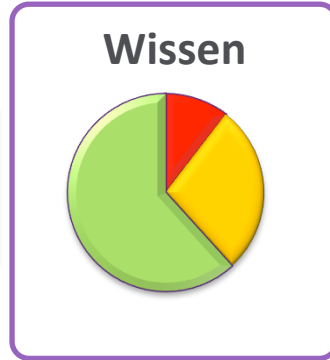
Agenda

- Application Management
- AppDNA
- Reporting
- Neu in AppDNA 7.6
- Appbot
- Lizenzierung

Zuvor haben IT Teams Anwendungen manuell auf unterschiedliche Plattformen mit sequentialem Ansatz getestet. Daher ein linearer Zeitrahmen um Projekte abzuschliessen. Dies bedeutet mehr Kosten und Risiko.



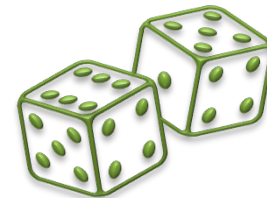
AppDNA eliminiert lange Testphasen durch Analyse aller Technologie Plattformen in kürzestem Zeitraum. Zum Beispiel 1000 Msi Import & Analysen in weniger als 48 Stunden.



Zeit



Kosten



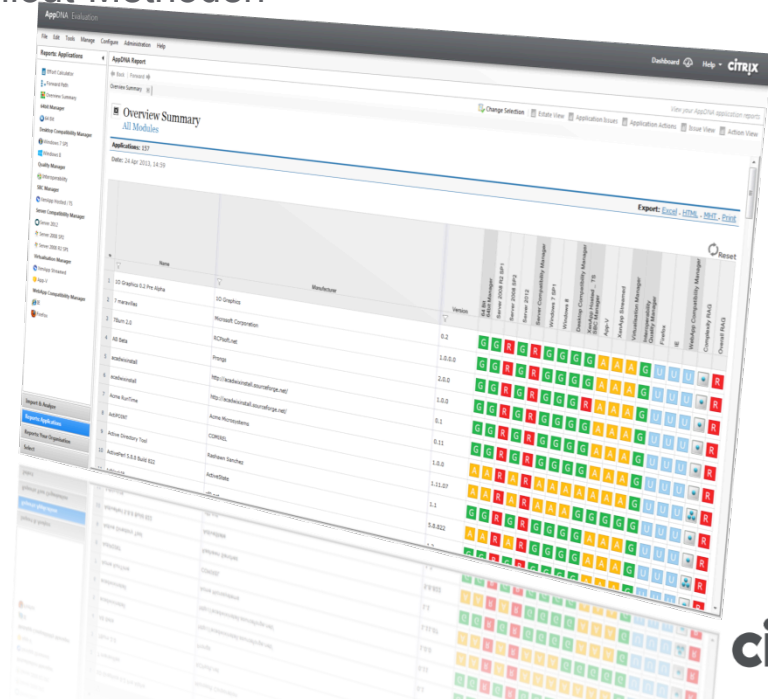
Risiko

AppDNA

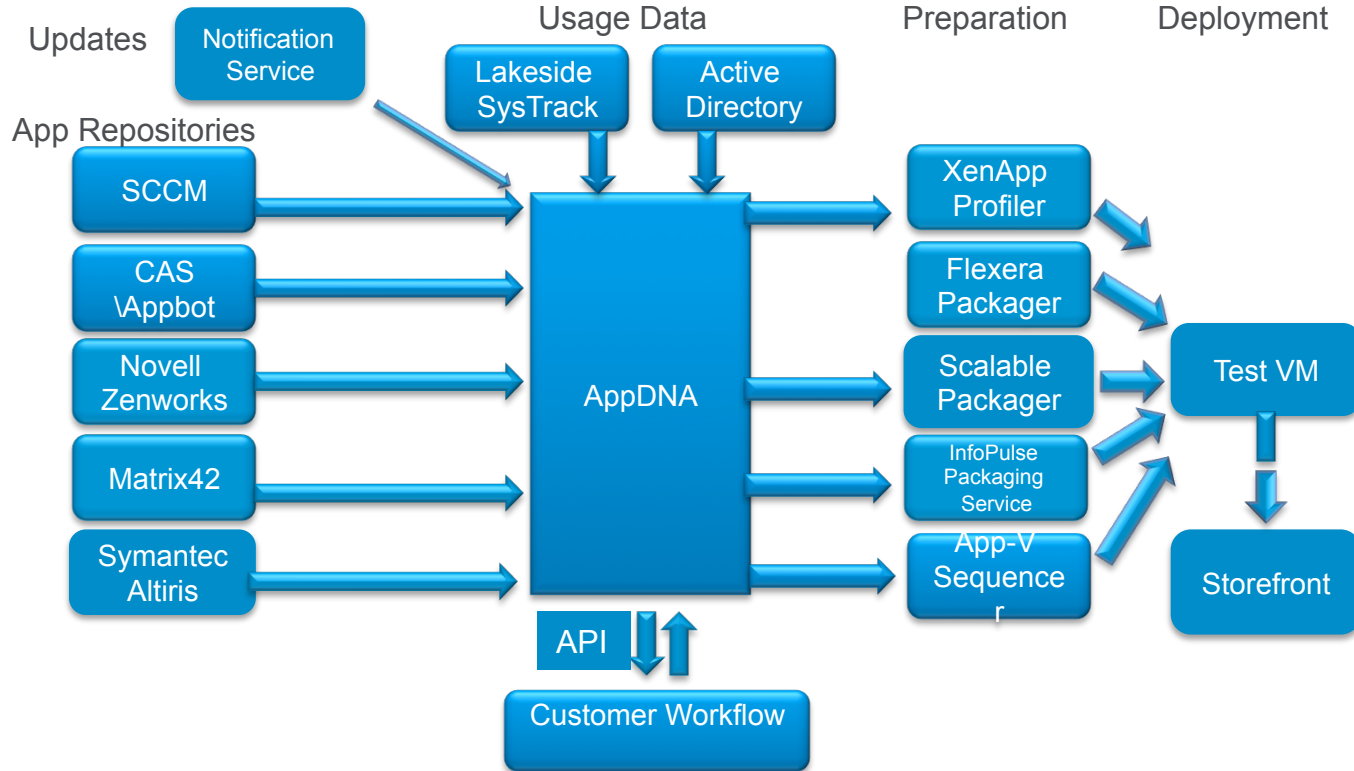
Automatisiertes App-LifeCycle-Management mit AppDNA

Tägliche Entlastung in der Applikations-Bereitstellung

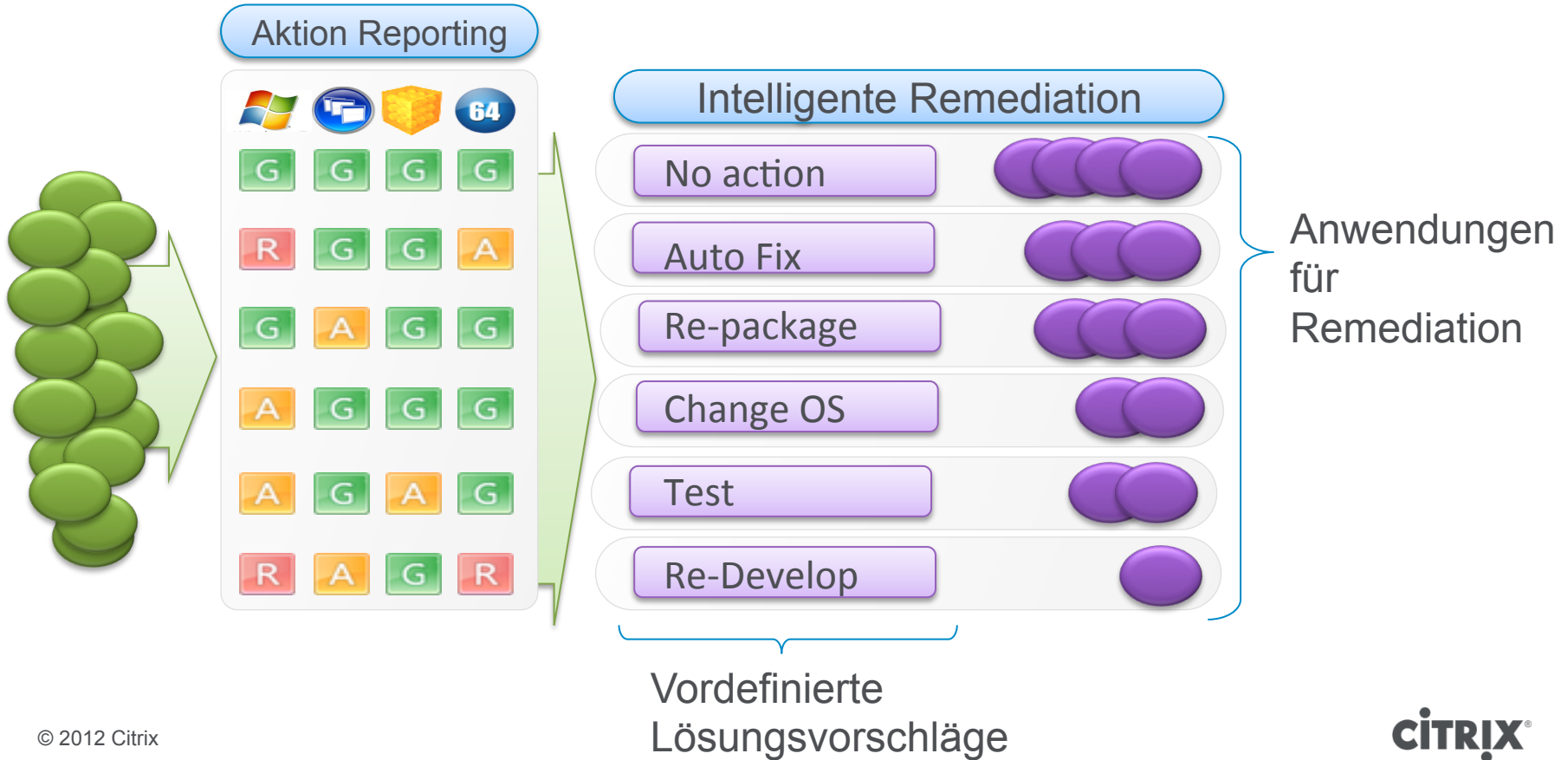
- schnelle Analyse der Software Pakete und Rollout-Methoden
 - Kompatibilitätsprüfung unter SW-Paketen und OS-Zielplattformen und Virtualisierung.
 - Patch Management und Service Packs
 - Reduzierter Aufwand für Freigabe-Prozess (QS)
- Geringeres Betriebs-Risiko
 - „1st Time packaging Success-Rate“
 - Manuell ca. 60-65% / AppDNA = 98%
 - bei WEB-Apps ...Reduktion von Sicherheitslücken und „Scripting-issues“ und mehr



AppDNA Integration



Intelligente Remediation



Analyse

Which reports would you like to run?

Desktop Compatibility Manager

- Windows 7 SP1
- Windows 8/8.1

SBC Manager

- XenApp Hosted / TS

Server Compatibility Manager

- Server 2008 R2 SP1
- Server 2012/2012 R2

Virtualisation Manager

- App-V

WebApp Compatibility Manager

- Firefox
- IE
- WorxWeb

Force re-analysis

Licensing options

Auto-unlock now



AppDNA will automatically unlock applications in the order in which they were imported until all the available licenses have been used up.

I will unlock the applications later



Use this option if you have limited licenses and you want to choose which applications you apply them to. You unlock applications in the Apply Licenses screen (Manage > Licenses).

[Learn more about licensing](#)

Reporting

Reporting

- Vorgefertigte oder frei definierbare Berichte
- Export in folgenden Formaten möglich:
 - Excel
 - PDF
 - Word
 - HTML
 - MHT



Übersicht des Anwendungsportfolios

← Back | Forward →

Change Selection | Estate View | Application Issues | Application Actions | Issue View | At

Overview Summary



Overview Summary

All Modules

Applications: 5

Export: [Excel](#) . [HTML](#) . [MHT](#) . [P](#)

Date: 08/09/2014 07:37:05



#	AppID	Name	Manufacturer	Version	Complexity RAG	Overall RAG	Server 2008 R2 SP1	Server 2012/2012 R2	Server Compatibility Manager	Windows 7 SP1	Windows 8.1	Desktop Compatibility Manager	XenApp Hosted / TS SBC Manager	App-V Virtualisation Manager	Firefox	IE	WorxWeb
1	5	filezilla	FileZilla Project	3.1.6.0		R	U	A	A	U	A	A	A	R	U	U	U
2	10	filezilla	FileZilla Project	3.1.6.0		A	U	A	A	U	A	A	A	A	U	U	U
3	24	Edit Plus	Swisscom IT Services AG	3.50.0001		R	G	G	G	G	G	G	R	A	U	U	U
4	9	Sparkol VideoScribe	Sparkol	1.3.26		A	U	A	A	U	A	A	G	G	U	U	U
5	7	StyleWriter	Editor Software	3.90		R	U	R	R	U	R	R	A	A	U	U	U

Remediation Bericht



StyleWriter

App-V Remediation Issues

AppID 7	Application StyleWriter	Manufacturer Editor Software	Version 3.90.0.0
A Standard	\\192.168.106.1\appdna\input\stylewriter\ORG_StyleWriter_3_90_P1.0 GLOBAL.msi		

Images: Default Image for Windows 7



Analyzed Date: 08/09/2014 07:35:00

Results Summary					
Module	Report	Group	Algorithm	Results	
				Standard	Total
Virtualisation Manager	App-V	Plugins	VPLGNOFF_004	A	1

Module	Report	Group	Standard	Algorithm						
	App-V		A	VPLGNOFF_004 - Office Plugins (File Based) Plugins						
				<p>Manifestation Microsoft Office Word startup addins (File Based) installed as part of one virtual environment will not be accessible from another virtual environment, therefore if Word startup addins cannot be sequenced together with the applications that require them they should not be virtualised.</p> <p>Remediation A strategy should be developed to facilitate the virtualisation of all Word startup addins. If necessary, you can enable the 'LOCAL_INTERACTION_ALLOWED' policy in the OSD file of sequenced application which makes it possible for an application running in an App-V bubble (SystemGuard) to interact on a higher level with locally installed applications. Enabling 'LOCAL_INTERACTION_ALLOWED' can introduce application conflicts, therefore it is best that it is only implemented if absolutely necessary. For more information: http://blogs.technet.com/b/appv/archive/2007/09/20/a-look-under-the-covers-the-local-interaction-allowed-tag.aspx. If this is impossible based on the plugins within the portfolio, they should be moved from the virtual environment and deployed to the local OS build or deployed using an alternative technology, such as Server based computing.</p> <p>Group: Plugins Plugins - Applications containing Microsoft Office and Internet Explorer plugins will require the development of a strategy to manage their co-existence with locally installed applications.</p> <p>Results</p> <table border="1"> <thead> <tr> <th>#</th> <th>filename</th> <th>target_path</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SW_AddIn.dot</td> <td>AppDataFolder\Microsoft\Word\STARTUP\SW_AddIn.dot</td> </tr> </tbody> </table>	#	filename	target_path	1	SW_AddIn.dot	AppDataFolder\Microsoft\Word\STARTUP\SW_AddIn.dot
#	filename	target_path								
1	SW_AddIn.dot	AppDataFolder\Microsoft\Word\STARTUP\SW_AddIn.dot								



Interoperability

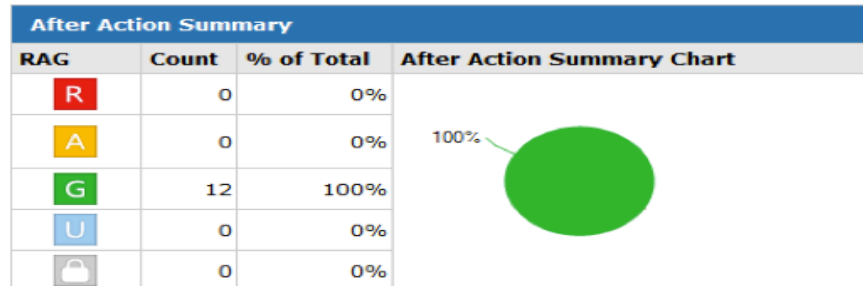
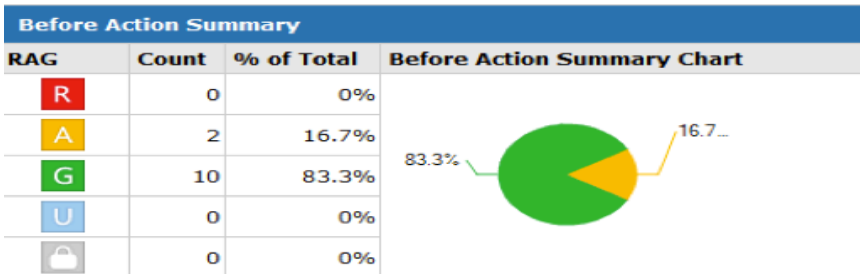
intercompatibility

Application Actions

Applications: 12

Export: [Excel](#) . [HTML](#) . [MHT](#) . [Print](#)

Date: 15/10/2014 12:28:22



Show counts

Reset

#	AppID	Name	Manufacturer	Path	Version	Complexity	Before Action	After Action	Action Effort
10	50	WinRAR	Rarlab	W:\Downloads\Rarlab_WinRAR_3.50_P1.0_GLOB...	3.50				NONE
11	58	ActiveSync	Microsoft	C:\appdna\input\ActiveSync_3.7_P1.0_GLOBAL.n...	3.7				EASY
12	52	Siemens GPRS	Siemens	W:\Downloads\Siemens GPRS.msi	4.1.1.09				EASY

Interoperability im Detail

AppID 58	Application ActiveSync	Manufacturer Microsoft	Version 3.7.0.0	Package Type Packaged
-------------	---------------------------	---------------------------	--------------------	--------------------------

A Standard	G After Action	C:\appdna\input\ActiveSync_3.7_P1_0_GLOBAL.msi
-------------------	-----------------------	--

Files: 100 | Registry entries: 894 | Complexity:

Analyzed Date: 12/10/2014 20:06:00

Results Summary

Module	Report	Action	Action Detail	Effort	Custom RAG	Action RAG	Issue Count
Interoperability	intercompatibility	Repackage	Create a Merge Module for shared resource.	Easy	A	G	2

Expand/Collapse All Manifestation Remediation Group Results

Module	Report	Action	Action Detail	Algorithms RAG	Action RAG	Algorithm Count											
Interoperability	intercompatibility	Repackage	Create a Merge Module for shared resource.	A	G	2											
		<table border="1"> <thead> <tr> <th>Std Group</th> <th>Cst RAG</th> <th>RAG</th> <th>Algorithm</th> </tr> </thead> <tbody> <tr> <td>Files</td> <td>A</td> <td></td> <td>CRCC_054</td> </tr> </tbody> </table>	Std Group	Cst RAG	RAG	Algorithm	Files	A		CRCC_054							
Std Group	Cst RAG	RAG	Algorithm														
Files	A		CRCC_054														
		<p>Group</p> <p>Each File instance is linked to its own Component and ComponentID. Similarly with the other algorithms described in this section, repair, uninstall and upgrade activity could potentially damage other applications installed on the machine.</p> <p>Manifestation</p> <p>Each File installed using an MSI is not only linked to a specific Component, and therefore ComponentID, but often represents the keypath for that component. During repair, uninstall and upgrade scenarios this ComponentID is used to ascertain whether it should be repaired, uninstalled or upgraded. If a file is represented by two or more ComponentIDs it may be removed in error by one application when it is still required by another.</p> <p>Remediation</p> <p>If a file is shared by multiple applications it will be necessary for the common elements that make up the component to be identical and installed using the same ComponentID to prevent any aspects of the component from being removed when required by another application. Microsoft best practices recommends creating a Merge Module containing the file , which can be used in all packages requiring the component to ensure that the files and ComponentID are identical between applications. If this is not possible, ensure the components are marked as shared or permanent.</p> <p>Details</p> <table border="1"> <thead> <tr> <th>#</th> <th>count</th> <th>product_name</th> <th>version_number</th> <th>manufacturer</th> <th>source</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>Siemens GPRS</td> <td>4.1.1.9</td> <td>Siemens</td> <td>W:\Downloads\Siemens GPRS.msi</td> </tr> </tbody> </table>	#	count	product_name	version_number	manufacturer	source	1	2	Siemens GPRS	4.1.1.9	Siemens	W:\Downloads\Siemens GPRS.msi			
#	count	product_name	version_number	manufacturer	source												
1	2	Siemens GPRS	4.1.1.9	Siemens	W:\Downloads\Siemens GPRS.msi												

XenDesktop Rollout



XenDesktop Adoption Report

XD7 Adding New Apps

Applications: 31

Export: [Excel](#) . [HTML](#) . [MHT](#) . [Print](#)

Date: 10 Oct 2013, 21:05

Applications that can run in a XenDesktop 7 environment on Windows Server 2012 R2 64-bit (Default Image for Windows Server 2012 R2)

1
Bereit
zum
Testen



#	AppID	Application	Manufacturer	Version	Current Platform	Server Hosted	Deployment Model
1	3	Amper & Sand and costs	Amper & Sand and costs	1.0.0	Site 1	G	Server Hosted on Windows Server 2012 R2 64-bit - Default Image for Windows Server 2012 R2
2	13	Citrix ICA Client	Citrix Systems, Inc.	9.00	Site 1	G	Server Hosted on Windows Server 2012 R2 64-bit - Default Image for Windows Server 2012 R2
3	36	Hardcopy Pro	Desksoft	2.21	Site 1	G	Server Hosted on Windows Server 2012 R2 64-bit - Default Image for Windows Server 2012 R2

Page 1 of 1 Records per page: 100 Displaying items: 1 - 3 of 3

Applications that require mediation to run in a XenDesktop 7 environment on Windows Server 2012 R2 64-bit (Default Image for Windows Server 2012 R2)

2
Fixen



#	AppID	Application	Manufacturer	Version	Current Platform	Server Hosted Before	Server Hosted After	Deployment Model
1	7	avast! Antivirus	Alwil	4.7	Site 1	R	G	Remediations: Server Hosted on Windows Server 2012 R2 64-bit - Default Image for Windows Server 2012 R2
2	9	Citrix AppDNA VM Config	Citrix AppDNA	6.2.1212.30	Site 1	A	A	Remediations: Server Hosted on Windows Server 2012 R2 64-bit - Default Image for Windows Server 2012 R2
3	10	Corel PHOTO-PAINT 6	Corel	6.0	Site 1	A	G	Remediations: Server Hosted on Windows Server 2012 R2 64-bit - Default Image for Windows Server 2012 R2

XenDesktop Upgrade

- Stack Konfiguration

Trial XD7 Upgrade

Report Analyze Edit... Delete

Let's see how many apps are compatible


Current platform(s)

Site 1 Presentation Server 4.0 Windows Server 2003 Applications: 7	Site 2 XenApp 6.0 Windows Server 2008 R2 6... Applications: 9
--	---

+ Add platform...

Target platform(s)

XenDesktop 7 Upgrade target XenDesktop 7 Windows Server 2012 64-bit
--

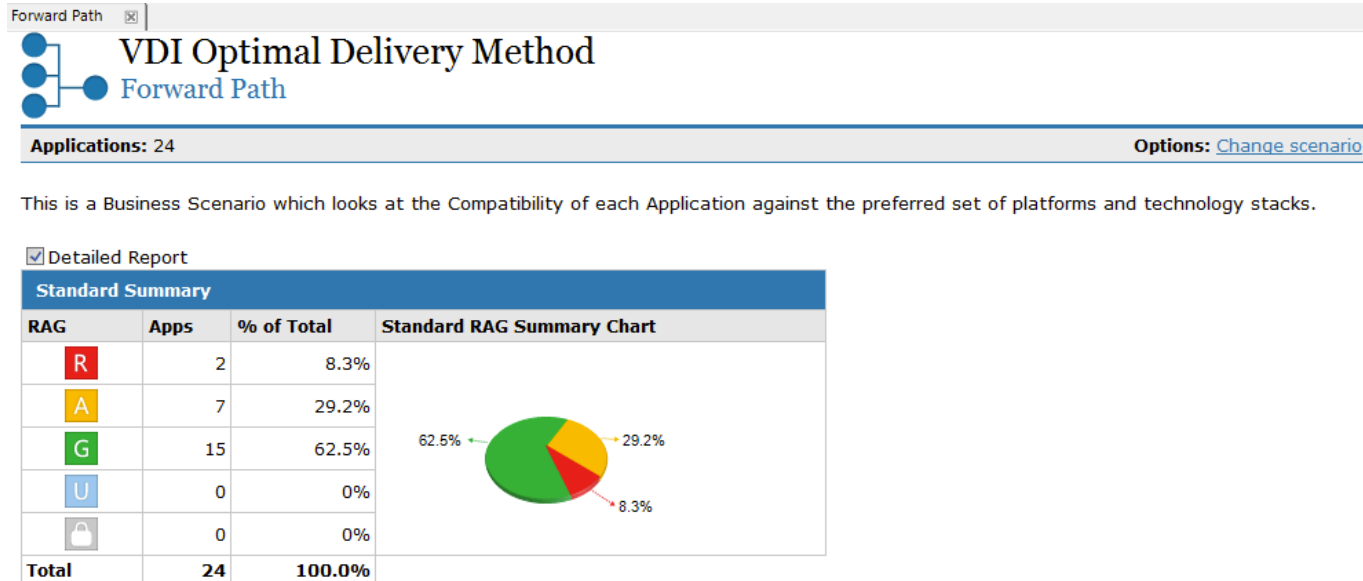

Stack 1
MF, OS, Apps


Stack 2
XA, OS, Apps


Gewünschte Ziel Konfiguration
(Automatisch)

Forward Pathing

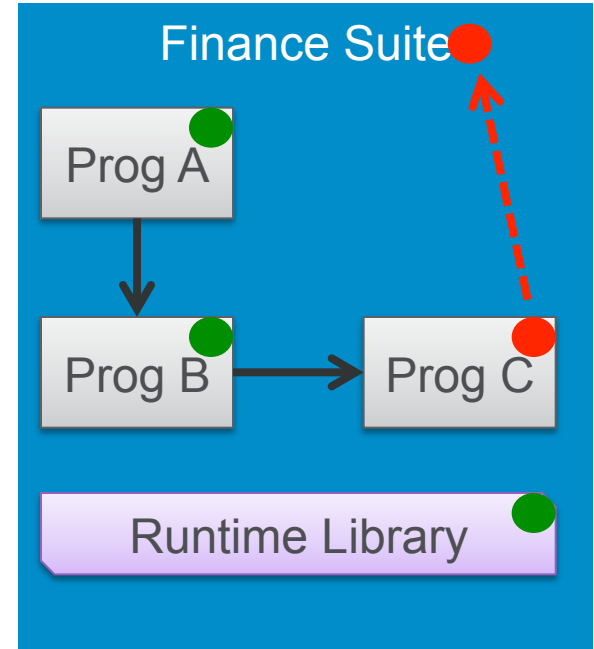
- Liefert projektorientierte Daten basierend auf frei definierbaren Deployment Szenarien



Neu in AppDNA 7.6

New Feature: Dependency Mapping

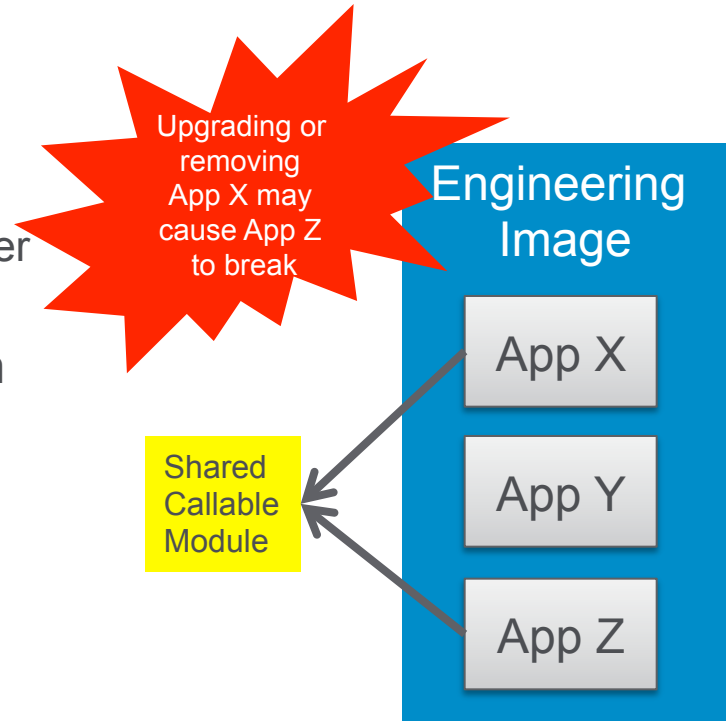
- Really important for App-V and images to include all dependent modules
- AppDNA will support:
 - Manually identifying dependencies
 - Suggest likely dependencies
 - Include analysis of runtime libraries
- Compatibility information will now 'bubble up' to the top
 - Top level will now be 'Red' if any dependent item is 'Red'



Updated Feature: Interop Testing

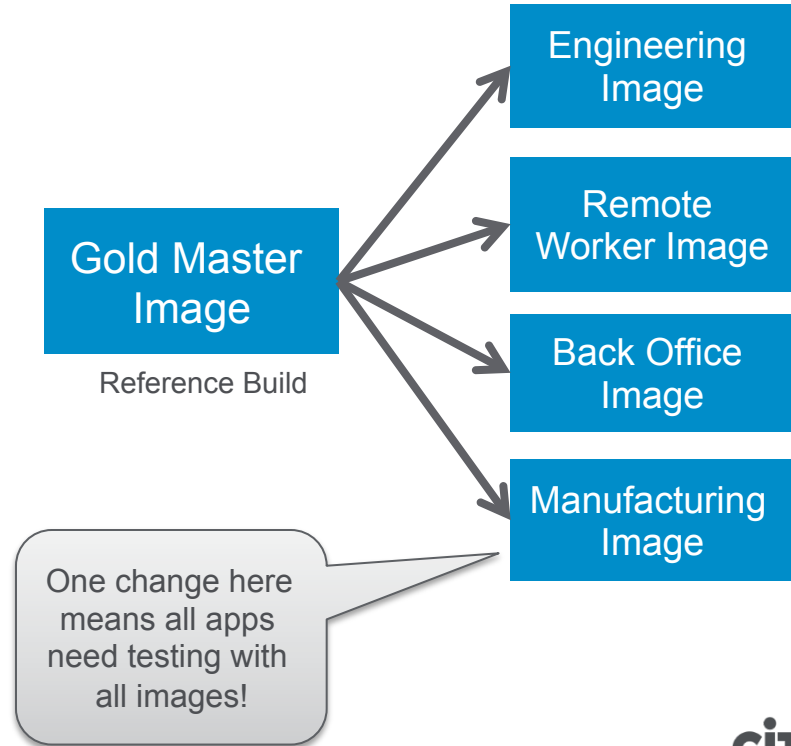
- Useful in planning groupings of MSI applications with images
 - Detects issues that can cause apps to break other apps during upgrade, uninstall, or repair
- Any Windows installer (MSI) conflict between apps in same image can be serious
- Manual testing is traditional method

Module	Report	Group	Standard	Export	Algorithm
Interoperability	Interop Demo Check	CR	R		CRCC_051 - Keypaths Manifestation Each component within an MSI should have a keypath ; is used to ascertain whether the component should be error by one application when it is still required by anot Remediation If a keypath resource is shared by multiple application; component from being removed when required by anot



New Feature: Build Assessment

- One change to an image means all apps on that image need to be retested
- Often only the golden master image gets tested – no time for the others
- NEW: AppDNA will check whether apps in the other images will be affected differently (compared to Gold)



Build Assessment

Build Assessment Summary Report - Windows 7 64-Bit Custom OS

Reference build

Default Image for Windows 7 32-bit

Installed Image for Windows 7
Windows 7

Testing compatibility across 1 target builds of which **1 build has applications with issues.**

Target Build Assessments	Fixes Required	Cannot be fixed
<u>Win764</u> windows 7 64bit 14 applications		5 application(s) with issues Source: 0 application(s) Target: 5 application(s)

Build Assessment

Build Comparison

How does your reference build compare with a specific target build?

Solution: [Windows 7 64-Bit Custom OS](#)

Reference build

Default Image for Windows 7 32-bit

Installed Image for Windows 7
Windows 7

Testing compatibility for **14 applications** between these 2 builds of which **5 applications** have issues.

Target build

Win764

windows 7 64bit
Windows 7

Not all issues can be fixed.

Application details

2 undefined application(s) detected.

#	App ID	Name	Manufacturer	Version	Reference RAG
1	29	Hardcopy Pro	Desksoft	2.21	✓
2	46	FileZilla Client 3.1.6	FileZilla Project	3.1.6	✓

Build Assessment

7 application(s) with no issues detected.

#	App ID	Name	Manufacturer	Version	Reference RAG
1	30	Sparkol VideoScribe	Sparkol	1.3.26	✓
2	48	Microsoft SQL Server Desktop Engine	Microsoft Corporation	8.00.760	✓
3	49	TextPad	Helios	4.5	✓
4	50	WinRAR	Rarlab	3.50	✓
5	53	Orca	Microsoft Corporation	3.1.3790.0000	✓
6	54	JR_Screen_Ruler	SPADIX SOFTWARE	1.4	✓
7	59	FileZilla Client 3.1.6	FileZilla Project	3.1.6	✓

Page 1 of 1 Records per page: 100 Displaying items: 1 - 7 of 7

5 unfixable application(s) with issues detected.

#	App ID	Name	Manufacturer	Version	Reference RAG	Shared Issues	Additional Issues	
							GPO	Other
1	31	StyleWriter	Editor Software	3.90	✓	0	0	2
2	52	Siemens GPRS	Siemens	4.1.1.09	✓	0	0	1
3	56	DameWare NT Utilities	DameWare Development	3.72.0.0	✓	0	0	2
4	57	iPassConnect	Sirocom	3.10	✓	0	0	5
5	58	ActiveSync	Microsoft	3.7	✓	0	0	4

Build Assessment

Build Assessment Issues Report for iPassConnect

How can you fix this application on the Target Build?

Solution: [Windows 7 64-Bit Custom OS](#) > [Win764](#)

AppID	Application iPassConnect	Manufacturer Sirocom	Version 3.10
W:\Downloads\iPassConnect.msi			
AppID: 57		Analyzed Date: 10/15/2014 12:24:05	

Reference build

Default Image for Windows 7 32-bit

Installed Image for Windows 7
Windows 7

Target build

Win764

windows 7 64bit
Windows 7

Fixes available

1

Additional issues

5

[View Issues](#)

Additional issues with no fixes

4

[View Issues](#)

Build Assessment

Issue 1 W7_OBS_MISSING_001

Files that require API CALLS not provided by the OS or the current portfolio

[Full details](#)

How to fix:

EASY

Ensure that a compatible runtime with the files listed below is added to application installer or update the build to include the files listed below. If however the API is core system file (for example a kernelbase.dll API call) provided by a previous operating system then the application, or the portion of the application that uses the files should be redeveloped.

Action:

Repackage

Unable to fix:

Issue 1 **R** W7_DRVSY_001

32-bit SYS Drivers are not supported on 64 bit platforms.

[Full details](#)

Issue 2 **R** W7_DRVx32_002

32-bit drivers detected by their PE flags.

[Full details](#)

Issue 3 **A** W7_DRVx32_003

32-bit drivers detected by their API Calls flags.

[Full details](#)

Issue 4 **R** W7_DRVx64_001

32-bit Kernel Mode Drivers are not supported on 64 bit platforms.

[Full details](#)

Build Assessment

Issue 1 W7_OBS_MISSING_001

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Build Assessment

Unable to fix:

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32-bit SYS Drivers are not supported on 64 bit platforms.

[Full details](#)

Issue 3 **A** W7_DRVx32_003

32-bit drivers detected by their API Calls flags.

[Full details](#)

Issue 2 **R** W7_DRVx32_002

32-bit drivers detected by their PE flags.

[Full details](#)

Issue 4 **R** W7_DRVx64_001

32-bit Kernel Mode Drivers are not supported on 64 bit platforms.

[Full details](#)

Complete Issues Details

[back to issue](#)

W7_DRVx32_002: 32-bit drivers detected by their PE flags.

Manifestation:

32-bit drivers will fail on a 64 bit platform due to their inherent low level functionality. Very few, if any will work with a 64 bit equivalent.

	filename	target_path	version_number
1	mdc8021x.sys	SystemFolder\drivers\mdc8021x.sys	1.4.0.14

GPO Settings

- GPO settings now detected
 - When incorporated in a custom OS image – not from Active Directory
 - 23 GPO's can affect apps, out of >5000 possible
 - Examples:
 - No 16-bit apps
 - Firewall exception creation
 - New device installation
 - New app installation (.msi's only)
 - Prohibit patching
 - Lock-down
 - Access to control panel
 - Disable and hide all items on desktop
 - Restrict internet communication
 - Startup behavior
 - Access to command prompt
 - Non-admins applying updates

Other Features

- .Net DNA added
 - System calls, etc. can now be detected inside .Net code
- 64-bit
 - 64-bit testing is no longer standalone – detected and turned on/off automatically
 - 64-bit OS accuracy improved (64-bit registry settings now included)
 - 64-bit OS images now ship with AppDNA
- WorxWeb compatibility analysis
 - Analyze IE web apps for compatibility with WorxWeb browser
- Performance optimization
 - Estate Views will now be constructed only when requested
 - Analysis runs faster due to separation of Interop
- Platform Support
 - MS SQL Server 2014 (Standard and Express Editions) is now supported

AppBot

Appbot



- Dient zur Migration von Citrix Streaming Profilen nach App-V
- Konvertierung von Windows basierten Applikationen
- Erstellung von MSI Paketen aus CAS Paketen
- MSI Paket Erstellung aus Kundenspezifischen Anwendungspaketen

AppDNA Lizenzierung

AppDNA Trial Lizenz

- Trial Licence built into the product – no charge
- Terms: Import 5 applications, Analyze 5 msi's, 5 web apps for 30 days
- Licences may be purchased and installed at any time, even after 30 days

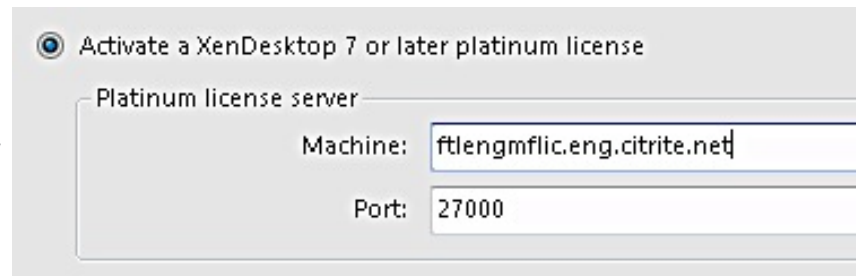
- New customers
 - Download requires lead generation form to be filled in

- Existing customers
 - Download does not trigger any communication with sales
 - Customer can continue to use existing AppDNA license



Aktivierung mit Platinum Lizenz

- Funktioniert mit XenDesktop/XenApp 7.6
Entriegelt alle AppDNA Module
- Angaben zur Installation
 - AppDNA kann von der Platinum website heruntergeladen werden
 - Spezifische Verbindung zum Lizenz server
 - Wenn Lizenz erfasst wird sind alle Module für unlimitierte Anwendungen entriegelt



The screenshot shows a dialog box titled "Activate a XenDesktop 7 or later platinum license". It contains a section labeled "Platinum license server" with two input fields: "Machine:" containing the text "ftlengmflic.eng.citrite.net" and "Port:" containing the text "27000".

CITRIX[®]