GETTING STARTED

PACE Suite 5.2

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1 Introduction

1.1 About This Document

The Getting Started document describes how to perform common application packaging tasks with the help of PACE Suite.



1.2 Glossary

- MSI is an installer package file format used by Windows. Its name comes from the program's original title, Microsoft Installer, which has changed to Windows Installer. MSI files are used for installation, storage, and removal of programs.
- MST is a settings file used by Microsoft Windows Installer, a component of the WindowsMST operating system that enables software installations. It contains software configuration options, allows custom parameters for the installation.
- APPV Microsoft Application Virtualization (also known as App-V; formerly Softricity SoftGrid) is an application virtualization and application streaming solution from Microsoft.
- APPX is the file format used to distribute and install Universal Windows Platform (UWP) appsAPPX on Windows 8.x and 10, Windows Phone 8.1, Windows 10 Mobile, Xbox One, Hololens, and Windows 10 IoT Core.
- MSIX MSIX is the file format used to distribute and install Universal Windows Platform (UWP) apps on Windows 10, 8/8.1, 7, MacOS, iOS, Android, Linux, Web.



2 PACE Overview

PACE Suite consists of the following components:



Tool	Major functions
MSI GENERATOR	 Repackage any existing installation into Windows Installer (MSI), UWP app package (MSIX/APPX) or a virtualization format (Microsoft App-V 5.x, and VMware ThinApp). Auto-detection of embedded installers. Create a response transform Include the excluded files/registry back to a package.
INSI EDITOR	 Manage the contents of an MSI in a tree view Import the desired resources Manage Custom Actions Integrate Device Drivers Use a smart and advanced MSI database editor, with formatted string autocompleting, Excel-like formula bar, row reference tracking, and more. Create patches (MSP) and Merge Modules (MSM) Manage permission settings for file system and registry Handle upgrades easily – just let MSI Editor know which MSI you want to be upgraded at runtime. Publish your applications to Microsoft SCCM 2007, 2012, 2016. See the estimated complexity of an app right away. Generate package documentation containing the details about your package and configuration. Undo-redo any manipulation and see the changes highlighted in the MSI tables
	 Automatically record your on-screen actions into a nice-looking document with screenshots and annotations



2.1 Installation & Activation

2.1.1 Software Prerequisites

Ensure that a target system contains necessary software prerequisites:

OS	 Windows or Windows Server OS that supports .NET 4.7.2 (https://docs.microsoft.com/en-us/dotnet/framework/get-started/system-requirements) or higher. NOTE Building Universal Windows Platform app packages (MSIX/APPX) is available under Windows 10 or Windows Server 2016 and newer.
	Microsoft .NET Framework 4.7.2 (<u>https://dotnet.microsoft.com/download/dotnet-</u> <u>framework-runtime</u>) or higher.
Middleware	NOTE For building THINAPP packages, ensure that your system contains VMware ThinApp (5.0.0/5.0.1/5.1.0/5.1.1/5.2.0) installed and activated with the valid license.
	NOTE For publishing MSI packages to Microsoft SCCM 2007 (SP1/SP2/R1/R2) or SCCM 2012 (SP1/SP2/R2/R2 SP1) server, ensure that your system contains Microsoft Management Framework 3.0 and Windows Remote Management (WinRM) service enabled.
Privileges	Administrative privileges on the system.

2.1.2 Hardware Prerequisites

Ensure that a target system fulfils the minimum hardware conditions:

	32-bit (x86) or 64-bit (x64) processor at 2 GHz or greater
Processor	NOTE To repackage 64-bit applications or create 64-bit App-V packages, use PACE Suite on a 64-bit Windows operating system.
RAM	2 GB
Hard drive free space	1 GB NOTE Additional storage is required for your projects and packages and depends on their size and quantity.
Display	1280 x 768 resolution or higher.

2.1.3 Installing PACE Suite

PACE Suite installation checks whether your license is compatible with the current PACE Suite version and whether your system meets minimum software requirements. Note that the installation requires the administrator privileges.

Run the downloaded PACE Suite installater.





• Read and accept the END USER LICENSE AGREEMENT and then click Next.





• Leave the default installation location or choose an alternative one and click Next.

🖟 PACE Suite Setup		_		
Destination Folder Click Next to install to the default folder of	or click Change to o	thoose another	PACE	
Install PACE Suite to:				
C:\Program Files (x86)\PACE Suite\				
<u>C</u> hange				
	<u>B</u> ack	Next	Cancel]

• Enter your license key or select the Skip entering a product key now option and click Next.

Register product Please enter valid license code Stip entering a product key now Select this if you have entered your product key on this machine before, or if you want to enter it later. Enter a product key now Product key: Get 30-days full license for free	\times
Please enter valid license code Skip entering a product key now Select this if you have entered your product key on this machine before, or if you want to enter it later. Image: The product key now Product key: Get 30-days full license for free	~~
Skip entering a product key now Select this if you have entered your product key on this machine before, or if you want to enter it later. Troduct key now Get 30-days full license for free	~~
Select this if you have entered your product key on this machine before, or if you want to enter it later. Enter a product key now Product key: Get 30-days full license for free	
Enter a product key now Product key: Get 30-days full license for free	
Product key: Get 30-days full license for free	
Get 30-days full license for free	
Back Next Cance	_



• Uncheck PACE Suite components, which you do not want to install, and click Next.

	· · · ·	
🙀 PACE Suite Setup		– 🗆 X
Advanced options		00000
Please choose advanced options		PHLE
Install MSI Generator		
Install MSI Editor		
Install Docu Generator		
Associate with *.mgp files		
Associate with *.appv files	3	
Integrate in context menu		
	Back	Next Cancel

• Click Install.

🙀 PACE Suite Setup		—		\times
Ready to install PACE Suite		0	PAC	ε
Click Install to begin the installation. Click Bac installation settings. Click Cancel to exit the v	k to review or change ar vizard.	ny of yo	ur	
Bad	k ෫ Install		Cance	el



• Wait until the installation is completed.

🖟 PACE Suite Setup	- D >	K
Installing PACE Suite		•
Please wait while the Setup Wizard installs PACE	Suite.	
Status: Updating component registration		
	Back Next Cancel	

• Click Finish.

👷 PACE Suite Setup		_		×
0	Completed the PACE Sui	te Setu	p Wiza	rd
PACE	Click the Finish button to exit the Set	tup Wizard	ı.	
	<u>B</u> ack Fini	sh	Canc	el

• Find the installed PACE Suite shortcuts on your Desktop and in the Start Menu.





2.1.4 Activating PACE Suite

If you have installed PACE Suite with the **Skip entering a product key now** option or your current license is expired, you can activate your copy of PACE Suite with the provided license key.

As PACE Suite consists of MSI Editor, MSI Generator and Docu Generator, you have to activate all these products separately.

• Launch MSI Editor from the desktop or the start menu shortcut.



• Click Enter the license key.

i Pac	CE Suite activation	×					
	This copy of PACE Suite is not activated.						
•	To activate this copy of PACE Suite enter the purchased license key. For purchasing a new license, click Buy now.						
	If you need additional assistance, please contact us via email or visit pacesuite.com						
	Enter the license key Buy now						



 Enter your license key and click Register.
 NOTE If you are using the desktop version of Microsoft Outlook, ensure that the <u>Auto Remove</u> <u>Line Breaks feature</u> is disabled. Otherwise, your keys may be displayed incorrectly, and often that is the cause of the Invalid key error.

I MSI Editor: About		
	PACE Suite	
	4.7.0.7	
	Part of PACE Suite	
\checkmark	Copyright © Infopulse 2018	
	License Agreement Product website Support	
License Info:		
Product Key:		Buy Now
Product Key:		Buy Now

• Repeat the activation process for MSI Generator and Docu Generator, launching them from the desktop or the start menu shortcut.





3 How-To Manuals

We regularly publish PACE Suite educational videos on YouTube. Please subscribe to our channel.

3.1 Create MSI

Choose a scenario that better suits your needs:

- Create MSI from Scratch, described in section 3.1.1 Create a blank MSI in MSI Editor, add folders, files, registry entries and shortcuts directly to the MSI package.
- Repackage Installation to MSI, described in section 3.1.2 Repackage your source installation (EXE, MSI, VBS, CMD, etc.) into MSI package using MSI Generator. Along with files and registry, services and environment variables, you can capture the modified permissions to the file system and registry.
- Capture System Changes to MSI, described in section 3.1.3 Capture system changes, which were made to the file system and registry, by script, by application or manually and save them into MSI package using MSI Generator. Along with files and registry, services and environment variables, you can capture the modified permissions to the file system and registry.

3.1.1 Create MSI from Scratch

Create a blank MSI in MSI Editor, add folders, files, registry entries and shortcuts directly to the MSI package.

• Launch MSI Editor from the desktop or the start menu shortcut.





Select New MSI... from the MENU to create a new empty MSI package.
 MSI Editor



New MSI	Ctrl + N
New MST	
Open	Ctrl + O
Open recent	•
Apply MST to MSI	
Remove MST from MSI	
Save	Ctrl + S
Save as	
Create MSP against original	MSI
Generate package report	
Deploy to SCCM	
Active scripting	
Compare packages	
Edit	•
Import and export	•
Validation	•
Help	•
Quit	Alt + F4

• Specify a name and a destination location for the package and click Save.

Save As					×
\leftrightarrow \rightarrow \land \uparrow	> This PC > Documents > MSI Editor	~ č	Search MSI Editor		Q
Organize 🔻 Ne	w folder				?
📌 Quick access	^ Name	Date modified	Туре	Size	
E. Desktop	🖈 No it	ems match your search.			
🖊 Downloads	*				
Documents	*				
Pictures	*				
i OneDrive					
💻 This PC					
💣 Network					
•4 Homegroup	×				
File <u>n</u> ame:	MyPackage1.msi				~
Save as <u>t</u> ype:	Windows Installer Database (*.msi)				\sim
∧ Hide Folders			Save	Cancel	

- For managing package resources and settings, refer to the respective section of this document:
 - For managing Application Details see section 3.7.2
 Manage product name, version, language and manufacturer of the application.
 - For managing Package IDs see section 3.7.3
 Manage product, upgrade and package codes.



- For managing Files and Folders see section 3.7.4
 Review package files and folders, add new folders, import files, set permissions, register
 COM objects and .NET assemblies, set the INSTALLDIR folder and the like.
- For managing Shortcuts see section 3.7.5 Review package shortcuts, add new or import existing shortcuts, manage their properties.
- For managing Registry see section 3.7.6
 Review package registry, add new or import from REG file registry keys and values, integrate ActiveSetup, set permissions and the like.
- For managing Custom Actions see section 3.7.7
 Manage custom and standard actions of the package, add new one to run scripts, EXE, etc.
- For managing Drivers see section 3.7.8
 Review the package device drivers, modify and add new ones.
- For managing Features and Components see section 3.7.9
 Review the feature-component structure and resources, linked with components. Add new features, components and manage their properties.
- For managing ARP Appearance see section 3.7.10
 Control how the package will be displayed in the App list (Add & Remove Programs).
- For managing Upgrades see section 3.7.11
 Manage the package upgrade settings to automatically upgrade previous MSI packages.
- For managing MSI Properties see section 3.7.12
 Manage package properties, defined in the Property table and those, which will be updated by the CustomAction, AppSearch, Control, ComboBox, CheckBox, RadioButton tables.
- For managing Summary Information see section 3.7.13
 Manage Summary Information of the opened MSI/MST.
- For managing MSI Tables see section 3.7.14
 Add, import, drop MSI tables.
- For managing Merge Modules, described in section 3.7.15
 Create new MSM or importing existing MSM to the package.



For saving your package, select Save from the MENU.



3.1.2 Repackage Installation to MSI

Repackage your source installation (EXE, MSI, VBS, CMD, etc.) into MSI package using MSI Generator. Along with files and registry, services and environment variables, you can capture the modified permissions to the file system and registry.

Launch MSI Generator from the desktop of the start menu shortcut. •





• If you have the User Account Control enabled, click Yes to launch the application.



• Click Capture installation.





• Review the issues, which were detected on your system, and try to resolve them by closing the non-essential applications and stopping services. Thereafter, click Next >.

Capture installation					×
•					
Prepare Ca computer n	apturing Settings Ir nethod	nstallation Completion			
Prepare the computer for cap	oturing				
It is strongly recommended to perform captu avoid capturing data, which is not related to virtual machine to the previous state. The follwing issues were detected on your system:	uring on a clean virtual machine v your source installation. Also, in o	with all non-essential processes case of any failure, you will be a	stopped able to re	in order store the	to e
Description	Resolution				
Diagnostic Policy Service is active.	Stop this service before capturing.				
Windows Defender Antivirus Service is active.	Stop this service before capturing.				
Security Center is active.	Stop this service before capturing.				
Windows Search is active.	Stop this service before capturing.				
Windows Defender is running.	Close your antivirus software before ca	apturing.			
Refresh		Review the captu	uring recon	nmendati	ons
		< Back Next >		Cancel	



• Select the Monitoring method for the quicker capturing (or use the Snapshotting one if you need to continue capturing after the system restart) and click Next >.

Capture installation	·							×
								
	Prepare computer	Capturing method	Settings	Installation	Completion			
Select a captu	iring method	ł						
Monite This m	oring (quick) nethod watches the	e installation and I	records system c	hanges to a packa	age.			
O Snapsl This m differe	hotting (configural nethod creates two nce between snap	ble) 9 system snapshot 9shots. Use this op	s (before and aft otion if your sour	er the installation) ce installation requ	and builds a pack uires the system re	age, bas start.	sed on	
				< Back	Next >		Cancel	
					L			



• Review and update package name. If needed, disable unnecessary exlusion filters and scanning areas. Click Next > to start the capturing.

Capture installation	-	-		5			×
	Prepare computer	✓ Capturing method	Settings	Installation	Completion		
Settings Package name							
PKG-170912-154800			Scannin	areas			
Apply the following f	ilters to the capt	ired resources:	Appli	cation objects: Permissions Services Printers			
				< Back	Next >	Cancel	

• Click Select and run... to choose source installation for repackaging.

Capture inst	allation						—		×
	P	Prepare	Capturing method	Settings	Installation	Completion			
Install yo	ur applica	ations no	WC						
Now is the tin the "Select an	ne to run insta nd run" functi	allers of the a ionality.	applications, whic	h you want to ca	apture. You can ru	n installers either n	manually	or usin	g
Detected MSL In	stallation								
State	Copied	Name							
Note that it is capturing and	not recomme d switch to cus	ended to rep tomizing the	ackage MSI to M em via a transforr	SI. If you have ir n in Editor.	stantly detected a	and copied MSI inst	tallations	s, cance	I
Once the inst	allation is com hed the install	npleted, select lation	ct "I have finished	the installation"	and click "Next".				
					< Back	Next >		Cance	

• Select the installer file (e.g. Firefox Setup.exe) and click Open.

© Open								×
	→ This	PC > Downloads		√ Ū	Search Downl	oads		P
Organize 🔻 🛛 No	ew folder							?
🚽 Quick access		Name	Date modified	Туре		Size		
 Carce access Desktop Downloads Documents Pictures OneDrive This PC Network Homegroup 	* * *	Firefox Setup.exe	9/13/2017 4:24 PM	Applicat	ion	33,209	КВ	
	File <u>n</u> an	ne: Firefox Setup.exe		~	Installer files <u>O</u> pen	(*.*)	Cancel	~

• Follow the installation dialogs of the launched source installation to complete it.

Mozilla Firefox Setup	- 🗆 X	
Welcome to the	Mozilla Firefox	
🐻 Mozilla Firefox Setup	-	×
Setup Type		
Choose set		– 🗆 X
Summary		
Ready to start installing Firefox		
Standar	x Setup	- 🗆 ×
Firefox Firefox will I	ile Marille Finafori is bains installed	
C:\Program	Mozilla Firefox Setup	
You ma Installing Firefo		
		Completing the Mozilla Firefox
		Setup Wizard
		Marilla Firefay has been installed on your computer
	and and	Olide Firefox has been installed on your computer.
		Click Finish to close this wizard.
Click Install		
		< <u>B</u> ack Einish Cancel

• Once the source installation is completed, we recommend to check if the Detected MSI installations tab does not contain found MSI installers. Even if your sources installation is an EXE file, it could contain embedded MSI installers, launched hiddednly. As you may know, repackaging existing vendor MSI installers into MSI is against Microsoft best practices. Thus, if the Detected MSI installations tab contains a found MSI installer, consider canceling

this capturing (repackaging) process and switching to editing it in MSI Editor (Edit MSI/MST is described in section 3.7). Note that the found MSI installers are copied to the project folder.

© Capture install	ation				I			×
								
	Prepare computer	Capturing method	Settings	Installation	Completion			
Install you	r applications n	ow						
Now is the time the "Select and	to run installers of the run" functionality.	applications, whic	h you want to ci	apture. You can ru	n installers either r	manually	or using	9
Select and	run							
Detected MSI Inst	allation							_
State	Copied Name							
Note that it is n capturing and s	ot recommended to re witch to customizing th	package MSI to M iem via a transforr	SI. If you have ir n in Editor.	stantly detected a	and copied MSI ins	tallations	s, cancel	1
Once the install	ation is completed, sele ed the installation	ect "I have finishec	the installation	and click "Next".				
				< Back	Next >		Cancel	

• Now you can make any additional changes to the file system and registry, which you want to capture along with source installation and include to the package. For instance, you can copy or edit configuration files, import REG file to the system registry, change file, folder permissions, or launch the installed application in order to capture the necessary application configurations, like disabling updates and so on.

In case of necessity, to change the default permission settings for a folder or a file, select **Properties** from the Windows Explorer context menu of a folder, for which you want to set new permissions.



PACE Suite 5.2 - Getting Started

📙 🛃 🚽 🖂 🖛 l C:\Program	n Files (x86)							- 0	×	
File Home Share	View								~ (2
\leftarrow \rightarrow \checkmark \uparrow \square \rightarrow This	s PC > Local Disk (C:) >	Program Files (x86) >				~	Ō	Search Program Files (x86)	Q]
	Name	^	Date modified	Tvi	oe.	Size				~
📌 Quick access			7/16/2016 2 47 PM	1.01		0.20				
📃 Desktop 🛛 🖈	Common Files		7/16/2016 2:47 PM	File	e folder					
👆 Downloads 🛛 🖈	Microsoft Analysis	Services	2/20/2017 1:54 PM	File	e folder					
🗄 Documents 🖈	Microsoft Office	Services	2/17/2017 3:40 PM	File	e folder					
Pictures 🖈	Microsoft SQL Serv	er	2/17/2017 3:42 PM	File	e folder					
	Microsoft.NET		2/17/2017 3:44 PM	File	e folder					
ConeDrive	Mozilla Firefox		0/10/2017 /-05 DM	File	folder					
🛄 This PC	🔒 Mozilla Maintenan	Open			folder			-		
A Network	Notepad++	Open in new wind	low		: folder					
- NEWOIK	PACE Suite	Pin to Quick acce	55		: folder					
•4 Homegroup	Uninstall Information	7-Zip		>	: folder					
	VMware	CRC SHA		>	folder					
	Windows Defender	Scan with Windov	vs Defender		folder					
	Windows Kits	Share with		\geq	folder					
	Windows Mail	Restore previous v	resions		tolder					
	Windows Media Pla	Include in library		>	tolder					
	Windows MT	Pin to Start			tolder					
	Windows Photo Vie	Send to		>	folder					
	Windows Portable	-		_	folder					
	WindowsPowerShe	Cut			folder					¥
21 items 1 item selected		Сору								
		Create shortcut								
		💡 Delete								
		💡 Rename								
		Properties								

Then, switch to the Security tab and click Edit.

Mozilla Firefox Properties										
General Sharing Security Previous Versions Customize										
Object name: C:\Program Files (x86)\Mozilla Firefox Group or user names:										
ALL APPLICATION PACKAGES	^									
ALL RESTRICTED APPLICATION PACKAGES										
SECREATOR OWNER	~									
<										
To change permissions, click Edit.										
APPLICATION PACKAGES Allow Deny										
Full control	^									
Modify										
Read & execute 🗸										
List folder contents 🗸										
Read 🗸										
Write	~									
For special permissions or advanced settings, Advanced Advanced.										
OK Cancel App	ły									

And select a group or a user, for which you want to change the permissions and then select the necessary access rights. For example, lets set the 'Write' and the 'Modify' access rights for

the 'Users' group. Then click Apply and OK.

Permissions for Mozilla Firefo	x	>						
Security								
Object name: C:\Program Files (x86)\Mozilla Firefo	x						
Group or user names:								
SCREATOR OWNER								
SYSTEM Administrators (WIN10X64-V/N	(\Administrators)							
Lusers (WIN10X64-VM\Users))	_						
StrustedInstaller								
<		>						
	A <u>d</u> d	<u>R</u> emove						
Permissions for Users	Allow	Deny						
Full control		□ ^						
Modify	\square							
Read & execute	~							
List folder contents	~							
Read								
ОК	Cancel	<u>A</u> pply						

• Finally, to complete the capturing, select I have finished the installation and click Next >.

Prepare Capturing Settings Installation Completion Install your applications now Now is the time to run installers of the applications, which you want to capture. You can run installers either manually or using
Prepare computer Capturing Method Installation Completion Install your applications now Now is the time to run installers of the applications, which you want to capture. You can run installers either manually or using the following the time in
Install your applications now Now is the time to run installers of the applications, which you want to capture. You can run installers either manually or using
Now is the time to run installers of the applications, which you want to capture. You can run installers either manually or using
the "Select and run" functionality.
Select and run
Detected MSI Installation
State Copied Name
Note that it is not recommended to repackage MSI to MSI. If you have instantly detected and copied MSI installations, cancel
capturing and switch to customizing them via a transform in Editor.
Once the installation is completed, select "I have finished the installation" and click "Next".
☑ I have finished the installation
✓ Back Next > Cancel



• Wait a little, while the capturing process is finishing, filtering captured data and creating the project.

Capture installati	ion							Х			
											
	Prepare computer	Capturing method	Settings	Installation	Completion						
Install your	applications n	ow									
Now is the time to run installers of the applications, which you want to capture. You can run installers either manually or using the "Select and run" functionality.											
Select and ru	ın										
Detected MSI Installa	ation										
State C	Copied Name										
Note that it is not	recommended to rep	backage MSI to MS	SI. If you have in	stantly detected a	and copied MSI inst	tallations	s, cancel				
capturing and swi	itch to customizing th	em via a transforn	n in Editor.								
Once the installati	ion is completed, sele	ct "I have finished	the installation"	and click "Next".							
🗹 I have finished	the installation										
(100:00 C	aing Convisor										
O UU.Uo Scanr	ing services										
				< Back	Next >		Cancel				



• Leave selected both the Customize project in editor and Copy all captured files to the project folder now options and click Finish.

Capture instal	llation					_		×
	~ —							
	Prepare computer	Capturing method	Settings	Installation	Completion			
Completio	on							
Important: be i functionality. Ex	informed that some of ca clude those unnecessar	aptured files and i y resources using	registry, which d editor.	o not belong to ye	our application, m	ay affect	: packag	e
● Customize p ○ Stop now ar	project in editor nd save project							
✓ Copy all cap	otured files to the project	folder now						
Project summary								
Project folde	r: C:\Users\pace\Docume	ents\MSI Generate	or\Packages\PK(5-170913-154800	(Go to)			
Files:	473 (909,7 MB)							
Registry:	451							
Services:	1							
Printers:	0							
				< Back	Finish		Cancel	

• If some of captured files are locked or missing and as result they could not be copied to the project folder, they will be displayed as illustrated below. Usually, the displayed files are system noise and do not refer to the captured application. Click **Finish** to continue with skipping locked and missing files. Note that such files will be automatically marked as 'Excluded' in your



Capture	installation		×	
		_		
	Prepare Capturing Settings Installation Completion computer method			
ompl	etion			
followi	ng files could not be conied to the project folder because they are locked or missing:			
ate	File path			
ocked	C:\Users\pace\ntuser.dat.LOG1			
ocked	C:\Users\pace\NTUSER.DAT			
lissing	C:\Users\pace\AppData\Local\Temp\b8b61adf-14ff-4926-95ef-16f3638de72f\snapshot2.xml			
ocked	C:\Users\pace\AppData\Local\Microsoft\Windows\UsrClass.dat.LOG1			
ocked	C:\Users\pace\AppData\Local\TileDataLayer\Database\EDB.log			
ocked	C:\Windows\System32\config\SOFTWARE.LOG1			
Detr				
Ketr	y			
, to rort	are missing and uplack lasked files and then slick "Dates". Click "Sinish" to proceed creating the project and	Lekin		
ovina la	ore missing and unlock locked lifes and then click. Kerry , click, rimish, to proceed cleaning the project and tocked and missing files to the project folder. Note that such files will be marked as "Excluded".	тякір		
-)g				

 Once the project is opened in the project editor, it is strongly recommended to review the Files, Shortcuts\Apps, Registry and System resources tabs and exclude the accidentally captured resources, which do not belong to the application. Such accidentally captured resources are also called system noise and it could be Windows Updates, Search indexing, Antivirus software and so on.

An MSI package with such resources may fail during the installation. The common reason for such fails is trying to write a registry value to the system-protected location, strongly prohibited from writing by third-party installations.

• In order to review the captured files and folders and exclude unnecessary ones, go to the Files tab, and select Exclude from the context menu of an item, which you want to exclude. Note



that the excluded items are highlighted in yellow and crossed out.

😂 Edit package - P	KG-190430-	144511.mgp								-		×
	Package	Files	Shortcuts\Ap	ops Re	egistry	System resources						
Files and fo	olders								Included: 124 files (197,6 MB) 7	Collapse al	ll -
Name								Туре	Size	State		
🖃 🛛 C:								Folder		Changed		
E Progr	ram Files (x86	5)						Folder		Changed		
۰ 🖿 🖿 م	Mozilla Fire	efox						Folder		Added		
• 🖿 M	Iozilla Mainte	enance Service						Folder		Added		
E Progr	ramData							Folder		Changed		
• M	licrosoft							Folder		Changed		
Users	;							Folder		Changed		
🕀 🛄 pi	ace							Folder		Changed		
🕀 🛄 Pi	ublic							Folder		Changed		
B Wind	ows							Folder		Changed		
🕀 🛄 ej	ppcompat							Folder		Changed		
. E P	refetch							Folder		Changed		
= S	ystem32							Folder		Changed		
	config	Import files						Folder		Changed		
	DE	New subfold	er					LOG2	202,0 KB	Changed		
	SO 📄	Properties		F2	-			LOG1	16,0 MB	Changed		
	SY:	Move to fold	lor	12				LOG1	1004,0 KB	Changed		
=	SleepS		lei	D.I.				Folder		Changed		
	🖹 Us	Exclude		Del				ETL	320,0 KB	Changed		
-	winevt	Add to exclu	ision filter		•			Folder		Changed		
9	E Lo	Delete		Shift+Del				Folder		Changed		
	emp	APPV virtual	ization level		•			Folder		Changed		
Add 🔺	Exclud	de										

 To review the captured MSI shortcuts and exclude unnecessary ones, go to the Shortcuts\Apps -> MSI tab, and select Exclude from the context menu of an item, which you want to exclude.

Edit package	e - PKG-190430-1	44511.mgp							- 🗆 ×
	Package	Files	Shortcuts\Apps	Registry	System resour	ces			
					MSI	UWP	APPV		
MSI shor	rtcuts							Included: 2 shortcuts	Collapse all
Name							Туре	Target	State
🖃 🔤 C:							Folder		Changed
🗉 📄 Pi	rogram Files (x86)						Folder		Changed
E Pr	rogramData						Folder		Changed
8	Microsoft						Folder		Changed
Θ	E Search						Folder		Changed
G	Windows						Folder		Changed
	🖃 📄 Start M	enu					Folder		Changed
	Pro	grams					Folder		Changed
	6	Firefox.Ink					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp						Folder		Changed
	Windows D	efender					Folder		Changed
	lsers						Folder		Changed
± _	pace						Folder		Changed
8	Public						Folder		Changed
G	Desktop						Folder		Changed
	👵 Firefox.	lnk Imp	ort chortcuts	-			Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
• V	Vindows	N	on shortcuts				Folder		Changed
		Nev	v snortcut						
		Nev	vsubtolder						
		Prop	perties	F2					
		Mov	ve to folder						
		Excl	ude	Del					
		Add	to exclusion filte	r ▶					
Add 🔺	Exclude	e Dele	ete	Shift+Del					



MENU	Package	Files Shortcuts\App	Registry	System resources			
Registry						Included	: 113 values 💙 Collapse al
Name					Туре	Value	State
HKEY	CLASSES_ROOT				System hive		
HKEY	CURRENT_USER				System hive		
🖃 🛄 S	oftware				Key		Changed
•	Classes				Key		Changed
-	Microsoft				Key		Changed
6	🗉 📗 AuthCookies				Key		Changed
	🗉 📕 Live	Import registry			Key		Changed
6	🗉 📗 IdentityCRL	Export registry			Key		Changed
	🗉 📗 Immersiv	Now kov			Key		Changed
6	Windows	New Key			Key		Changed
HKEY	LOCAL_MACHINE	New value			System hive		
🖃 🛄 S	OFTWARE	Properties	F2		Key		Changed
±	Classes	Move to			Key		Changed
±	Clients	Exclude	Del		Key		Changed
±	Microsoft	Add to exclusion filter	•		Key		Changed
H	Mozilla	Delete	Shift+Dol		Key		Added
. E [Policies	Delete	Juictber		Key		Changed
H	RegisteredApplic	APPV virtualization lev	el 🕨		Key		Changed
±	WOW6432Node				Key		Changed
🖃 🛄 S	ystem				Key		Changed
	CurrentControlSe	t			Key		Changed
6	Services				Key		Changed
	🕀 🖿 MozillaM	aintenance			Key		Added
	E SharedAc	cess			Key		Changed
	USERS				System hive		

 To review the captured services and exclude unnecessary ones, go to the System resources -> Services tab, and uncheck the checkbox, located before the service name in the list, for those services, which you want to exclude.

Edit package - PKG-190430	144511.mg	р			- 🗆 X
≡ MENU Package	Files	Shortcuts\Apps	Registry	System resources	
			Services	(1) Printers (0)	Environment variables (0)
Services Image: Service servi			Services	(<u>1</u>) Printers (0)	Environment variables (0) Displayed name Mozilla Maintenance Service Description The Mozilla Maintenance Service ensures that you have the latest and most secure version of M Executable "C:\Program Files (x86)\Mozilla Maintenance Service\maintenanceservice.exe" Start parameters LocalSystem Dependencies: Start type Manual V Event Auto V Error control
					Normal 🗸



 In order to add and remove Environment variables, go to the System resources -> Environment variables tab, and select respective option from the context menu.

Edit package - PKG-190430-144511.mgp	-	×
≡ MENU Package Files Shortcuts\Apps Registry System resources		
Services (1) Printers (0) Environment variables (1)		
Nane Value Type + TestVer Value 1 Add Delete		

- For managing MSI Settings such as application details, compression type, use of advertised tables, adding, active setup and the like, see section 3.8.6
- Finally, to generate an MSI package navigate to the Package -> MSI tab and click Build MSI.
 Edit package PKG-190430-144511.mgp

Edit package - PKG-190430-144511.mgp	p									-		\times
E MENU Package Files	Shortcuts\Apps	Registry	System resources									
		MSI	MST	UWP	AP	PV	TH	INAPP				
Application Details				N	ISI Pack	age C	Optio	ns				
Application name				M	il settings pro	ofile						
Firefox				de	efault					~	Edit	t
Publisher				Pro	ject folder							
Mozilla				0	:\Users\pa	:e\Docu	ments\	MSI Generator\Package	s\PKG-1 Brov	wse	Go to	
Version	Product land	uage		M	I CodePage							
63.0.3	1033			C	Neu	tral						~
Product code				IN	STALLDIR							
			New GUID	C	\Program f	iles (x86	5)\Mozi	lla Firefox				~
Upgrade code							Data	to dia 1911 installations			Open	
			New GUID	: .	BOILD L	OG	Detec	ted MSI Installations			open	log
Generate new codes when build M	ISI				ype	Liapseu		Step				
Summary Information												
-												
Title	Subject											
Title Installation Database	Subject											
Title Installation Database Author	Subject Keywords											
Title Installation Database Author	Subject Keywords	1										
Title Installation Database Author Comments	Subject Keywords Install,MS	1										
Title Installation Database Author Comments This installer database contains the lo	Subject Keywords Install,MS ogic and data required	I I to install <pre< td=""><td>oduct name>.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pre<>	oduct name>.									
Title Installation Database Author Comments This installer database contains the lo	Subject Keywords Install,MS ogic and data required Languages	I I to install <pre< td=""><td>oduct name>.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pre<>	oduct name>.									



• Once the package is built, click **Go to**..., located next to the **Project folder** field, to open the project folder in Windows Explorer. Find your package in the "MSI" subfolder.

Edit package - PKG-190430-144511.mgp								
E MENU Package Files	Shortcuts\Apps	Registry	System resources					
		MSI	MST	JWP	APPV	THINAPP		
Application Details				MSI P	ackage C	Options		
Application name				MSI settin	gs profile			
Firefox				default			~	Edit
Publisher				Project fo	der			
Mozilla				C:\User	s\pace\Docu	ments\MSI Generator\Packages\PKG-1	Browse	Go to
No.								00.00
version	Product lang	Juage		MISI Code	Page			
65.0.5	1055			U	Neutral			
Product code				INSTALLD	IR			
{0A6CB50B-C191-4E46-B206-F07A76	3AD957}		New GUID	C:\Prog	am Files (x86)\Mozilla Firefox		
Upgrade code				BU	LD LOG	Detected MSI installations		Open log
{99F27E0A-B935-4175-B70D-966E4D	302030}		New GUID	Туре	Elapsed	Step		
Generate new codes when build MS	I				00:00:59	Operation was completed successfully		
					00:00:59	Writing data to the _Validation table		
Summary Information					00:00:59	Writing data to the CreateFolder table		
Title	Subject				00:00:59	Writing data to the AdvtExecuteSequence	e table	
Installation Database					00:00:59	Writing data to the InstallExecuteSequer	ce table	
Installation Database					00:00:59	Writing data to the CustomAction table		
Author	Keywords				00:00:59	Writing data to the MsiAssemblyName t	able	
	Install,MS	l			00:00:59	Writing data to the MsiAssembly table		
Comments					00:00:52	Writing data to the Media table	- PKG191_1.cab	
This installer database contains the lo	nic and data required	to install < pr	oduct name>		00:00:52	Writing data to the Verb table		
	gir and data required				00:00:52	Writing data to the MIME table		
Platform	Languages				110002			
				Elapsed t	me			



3.1.3 Capture System Changes to MSI

Capture system changes, which were made to the file system and registry, by script, by application or manually and save them into MSI package using MSI Generator. Along with files and registry, services and environment variables, you can capture the modified permissions to the file system and registry.

• Launch MSI Generator from the desktop of the start menu shortcut.



• If you have the User Account Control enabled, click Yes to launch the application.

User Account Control	×						
Do you want to allow this app to make changes to your device?							
i MSI Generator							
Verified publisher: Infopulse Ukraine LLC File origin: Hard drive on this computer							
Show more details							
Yes No							


Click Capture installation. •



Review the issues, which were detected on your system, and try to resolve them by closing the • non-essential applications and stopping services. Thereafter, click Next >

Ca	apture installation								×
		Prepare computer	Capturing method	Settings	Installation	Completion			
۲e	pare the cor	nputer for	capturing						
is s /oid rtu	strongly recommen d capturing data, w al machine to the p ollwing issues were de	ded to perform hich is not relate previous state. tected on your sys	capturing on a cle ed to your source tem:	ean virtual mach installation. Also	ine with all non-e b, in case of any fa	ssential processes ilure, you will be a	stopped ble to res	in orde tore th	er to Ie
Des	cription		Resolution						
0	Diagnostic Policy Sen	vice is active.	Stop this servi	ice before capturing] .				
0	Windows Defender A	ntivirus Service is a	ctive. Stop this servi	ice before capturing	g.				
0	Security Center is acti	ve.	Stop this servi	ice before capturing	g.				
0	Windows Search is ac	tive.	Stop this servi	ice before capturing) .				
0	Windows Defender is	running.	Close your an	tivirus software bef	ore capturing.				
	Refresh					Review the captu	ring recom	mendat	ions
					< Back	Next >		Cance	

• Select the Monitoring method for the quicker capturing (or use the Snapshotting one if you need to continue capturing after the system restart) and click Next >.

Capture installation								×
								
	Prepare computer	Capturing method	Settings	Installation	Completion			
Select a captu	iring method	ł						
Monite This m	oring (quick) nethod watches the	e installation and I	records system c	hanges to a packa	age.			
O Snapsl This m differe	hotting (configural nethod creates two nce between snap	ble) 9 system snapshot 9shots. Use this op	s (before and aft ption if your sour	er the installation) ce installation requ	and builds a pack uires the system re	age, bas start.	sed on	
				< Back	Next >		Cancel	
					L			



 Review and update package name. If needed, disable unnecessary exlusion filters and scanning areas. Click Next > to start the capturing.

Capture installation	_	_		<u> </u>		_		×
	Prepare computer	Capturing method	Settings	Installation	Completion			
Settings								
Package name PKG-170912-154800								
Exclusion filters			Scannin	g areas				
Apply the following f AllWindowsOS Win7 Win8-10	ilters to the capt	ured resources:	Appli ☑ ☑ ☑	cation objects: Permissions Services Printers				
				< Back	Next >		Cancel	

• Now you can make any changes to the file system and registry, which you want to capture and include to the package. For instance, you can copy files, import REG file to the system registry, change file, folder permissions, or launch the installed application in order to capture the necessary application configurations, like disabling updates and so on.

In case of necessity, to change the default permission settings for a folder or a file, select **Properties** from the Windows Explorer context menu of a folder, for which you want to set new permissions.



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📙 🛃 🚽 🖂 🖛 l C:\Program	n Files (x86)							- 0	×	
File Home Share	View								~ (2
\leftarrow \rightarrow \checkmark \uparrow \square \rightarrow This	s PC > Local Disk (C:) >	Program Files (x86) >				~	Ō	Search Program Files (x86)	Q]
	Name	Date modified			oe.	Size				~
📌 Quick access			7/16/2016 2 47 PM	1.01		0.20				
📃 Desktop 🛛 🖈	Common Files		7/16/2016 2:47 PM	File	e folder					
👆 Downloads 🛛 🖈	Microsoft Analysis	Services	2/20/2017 1:54 PM	File	e folder					
🗄 Documents 🖈	Microsoft Office	Services	2/17/2017 3:40 PM	File	e folder					
Pictures 🖈	Microsoft SQL Serv	er	2/17/2017 3:42 PM	File	e folder					
	Microsoft.NET		2/17/2017 3:44 PM	File	e folder					
ConeDrive	Mozilla Firefox		0/10/2017 /-05 DM	File	folder					
🛄 This PC	🔒 Mozilla Maintenan	Open			folder			-		
A Network	Notepad++	Open in new wind	dow		: folder					
- NEWOIK	PACE Suite	Pin to Quick acce	55		: folder					
•4 Homegroup	Uninstall Information	7-Zip CRC SHA Scan with Windows Defender			: folder					
	VMware				folder					
	Windows Defender				folder					
	Windows Kits	Share with		\geq	folder					
	Windows Mail	Restore previous v	resions		tolder					
	Windows Media Pla	Include in library		>	tolder					
	Windows MT	Pin to Start			tolder					
	Windows Photo Vie	Send to		>	folder					
	Windows Portable	-		_	folder					
	WindowsPowerShe	Cut			folder					¥
21 items 1 item selected		Сору								
		Create shortcut								
		💡 Delete								
		💡 Rename								
		Properties								

Then, switch to the Security tab and click Edit.

Mozilla Firefox Properties												
General Sharing Security Previous Versions Customize												
Object name: C:\Program Files (x86)\Mozilla Firefox Group or user names:												
ALL APPLICATION PACKAGES												
ALL RESTRICTED APPLICATION PACKAGES												
SECREATOR OWNER	~											
< >												
To change permissions, click Edit.												
APPLICATION PACKAGES Allow Deny												
Full control	^											
Modify												
Read & execute 🗸												
List folder contents 🗸												
Read 🗸												
Write	~											
For special permissions or advanced settings, Advanced Advanced.												
OK Cancel App	ły											

And select a group or a user, for which you want to change the permissions and then select the necessary access rights. For example, lets set the 'Write' and the 'Modify' access rights for

the 'Users' group. Then click Apply and OK.

Permissions for Mozilla Firefox										
Security										
Object name: C:\Program Files (x86)\Mozilla Firefo	x								
<u>G</u> roup or user names:										
SCREATOR OWNER		^								
SYSTEM Administrators (WIN10X64-V/N	(\Administrators)									
Lusers (WIN10X64-VM\Users))	_								
Inusted Installer		~								
<		>								
	A <u>d</u> d	<u>R</u> emove								
Permissions for Users	Allow	Deny								
Full control		□ ^								
Modify	\square									
Read & execute	~									
List folder contents	~									
Read										
ОК	Cancel	<u>A</u> pply								

• Finally, to complete the capturing, select I have finished the installation and click Next >.

Prepare Capturing Settings Installation Completion Install your applications now Now is the time to run installers of the applications, which you want to capture. You can run installers either manually or using
Prepare computer Capturing Method Installation Completion Install your applications now Now is the time to run installers of the applications, which you want to capture. You can run installers either manually or using the following the time in
Install your applications now Now is the time to run installers of the applications, which you want to capture. You can run installers either manually or using
Now is the time to run installers of the applications, which you want to capture. You can run installers either manually or using
the "Select and run" functionality.
Select and run
Detected MSI Installation
State Copied Name
Note that it is not recommended to repackage MSI to MSI. If you have instantly detected and copied MSI installations, cancel
capturing and switch to customizing them via a transform in Editor.
Once the installation is completed, select "I have finished the installation" and click "Next".
☑ I have finished the installation
✓ Back Next > Cancel



• Wait a little, while the capturing process is finishing, filtering captured data and creating the project.

Capture installati	ion							Х
								
	Prepare computer	Capturing method	Settings	Installation	Completion			
Install your	applications n	ow						
Now is the time to the "Select and ru	o run installers of the ın" functionality.	applications, which	h you want to ca	pture. You can ru	n installers either n	nanually	or using	9
Select and ru	ın							
Detected MSI Installa	ation							
State C	Copied Name							
Note that it is not	recommended to rep	backage MSI to MS	SI. If you have in	stantly detected a	and copied MSI inst	tallations	s, cancel	
capturing and swi	itch to customizing th	em via a transforn	n in Editor.					
Once the installati	ion is completed, sele	ct "I have finished	the installation"	and click "Next".				
🗹 I have finished	the installation							
(100:00 C	aing Convisor							
O UU.Uo Scanr	ing services							
				< Back	Next >		Cancel	



• Leave selected both the Customize project in editor and Copy all captured files to the project folder now options and click Finish.

Capture instal	lation					_		×
								
	Prepare computer	Capturing method	Settings	Installation	Completion			
Completic	n							
Important: be i functionality. Ex	nformed that some of ca clude those unnecessary	aptured files and r / resources using	registry, which de editor.	o not belong to yo	our application, ma	ay affect	package	2
 Customize p Stop now an 	roject in editor d save project							
✓ Copy all cap	tured files to the project	folder now						
Project summary								
Project folder	:: C:\Users\pace\Docume	ents\MSI Generato	or\Packages\PKG	-170913-154800 ((Go to)			
Files:	473 (909,7 MB)							
Registry:	451							
Services:	1							
Printers:	0							
				< Back	Finish		Cancel	
				, buck	L		Contect	

• If some of captured files are locked or missing and as result they could not be copied to the project folder, they will be displayed as illustrated below. Usually, the displayed files are system noise and do not refer to the captured application. Click **Finish** to continue with skipping locked and missing files. Note that such files will be automatically marked as 'Excluded' in your



Capture	installation		×	
		_		
	Prepare Capturing Settings Installation Completion computer method			
ompl	etion			
followi	ng files could not be conied to the project folder because they are locked or missing:			
ate	File path			
ocked	C:\Users\pace\ntuser.dat.LOG1			
ocked	C:\Users\pace\NTUSER.DAT			
lissing	C:\Users\pace\AppData\Local\Temp\b8b61adf-14ff-4926-95ef-16f3638de72f\snapshot2.xml			
ocked	C:\Users\pace\AppData\Local\Microsoft\Windows\UsrClass.dat.LOG1			
ocked	C:\Users\pace\AppData\Local\TileDataLayer\Database\EDB.log			
ocked	C:\Windows\System32\config\SOFTWARE.LOG1			
Detr				
Ketr	y			
, to rort	are missing and uplack lasked files and then slick "Dates". Click "Sinish" to proceed creating the project and	Lekin		
ovina la	ore missing and unlock locked lifes and then click. Kerry , click, rimish, to proceed cleaning the project and tocked and missing files to the project folder. Note that such files will be marked as "Excluded".	тякір		
-)g				

 Once the project is opened in the project editor, it is strongly recommended to review the Files, Shortcuts\Apps, Registry and System resources tabs and exclude the accidentally captured resources, which do not belong to the application. Such accidentally captured resources are also called system noise and it could be Windows Updates, Search indexing, Antivirus software and so on.

An MSI package with such resources may fail during the installation. The common reason for such fails is trying to write a registry value to the system-protected location, strongly prohibited from writing by third-party installations.

• In order to review the captured files and folders and exclude unnecessary ones, go to the Files tab, and select Exclude from the context menu of an item, which you want to exclude. Note



that the excluded items are highlighted in yellow and crossed out.

😂 Edit package - P	KG-190430-	144511.mgp								-		×
	Package	Files	Shortcuts\Ap	ops Re	egistry	System resources						
Files and fo	olders								Included: 124 files (197,6 MB) 7	Collapse al	ll -
Name								Туре	Size	State		
🖃 🔤 C:								Folder		Changed		
E Progr	ram Files (x86	5)						Folder		Changed		
۹ 🖿 🗷	Mozilla Fire	efox						Folder		Added		
• 🖿 M	Iozilla Mainte	enance Service						Folder		Added		
E Progr	ramData							Folder		Changed		
• M	licrosoft							Folder		Changed		
Users	;							Folder		Changed		
🕀 🛄 pi	ace							Folder		Changed		
🕀 🛄 Pi	ublic							Folder		Changed		
B Wind	ows							Folder		Changed		
🕀 🛄 ej	ppcompat							Folder		Changed		
. E P	refetch							Folder		Changed		
= S	ystem32							Folder		Changed		
	config	Import files						Folder		Changed		
	DE	New subfold	er					LOG2	202,0 KB	Changed		
	SO 📄	Properties		F2	-			LOG1	16,0 MB	Changed		
	SY:	Move to fold	lor	12				LOG1	1004,0 KB	Changed		
=	SleepS		lei	D.I.				Folder		Changed		
	🖹 Us	Exclude		Del				ETL	320,0 KB	Changed		
-	winevt	Add to exclu	ision filter		•			Folder		Changed		
9	E Lo	Delete		Shift+Del				Folder		Changed		
	emp	APPV virtual	ization level		•			Folder		Changed		
Add 🔺	Exclud	de										

 To review the captured MSI shortcuts and exclude unnecessary ones, go to the Shortcuts\Apps -> MSI tab, and select Exclude from the context menu of an item, which you want to exclude.

Edit package	e - PKG-190430-1	44511.mgp							– 🗆 ×
	Package	Files	Shortcuts\Apps	Registry	System resour	ces			
					MSI	UWP	APPV		
MSI shor	rtcuts							Included: 2 shortcuts	Collapse all
Name							Туре	Target	State
🖃 📉 C:							Folder		Changed
• P	rogram Files (x86)						Folder		Changed
E P	rogramData						Folder		Changed
	Microsoft						Folder		Changed
e	E Search						Folder		Changed
G	Windows						Folder		Changed
	Start M	enu					Folder		Changed
	🖃 📃 Pro	grams					Folder		Changed
	6	Firefox.Ink					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp						Folder		Changed
G	Windows D	efender					Folder		Changed
😑 📃 U	lsers						Folder		Changed
± [pace						Folder		Changed
•	Public						Folder		Changed
G	Desktop						Folder		Changed
	🍯 Firefox.	lnk .					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
• 🗆 V	Vindows	Imp	ort shortcuts				Folder		Changed
		Nev	v shortcut						
		Nev	v subfolder						
		Prot	perties	F2					
		Mov	e to folder						
		Evel	ude	Del					
		A -1 -	to ovelusion filter						
		Add	to exclusion filter	Chiffer Dal					
Add 🔺	Exclude	e Dele	216	Shitt+Del					



 To review the captured registry keys and values and exclude unnecessary ones, go to the Registry tab, and select Exclude from the context menu of an item, which you want to exclude.
 Edit package - PKG-190430-144511.mgp

MENU	Package	Files Shortcuts\App	s Registry	System resources			
Registry						Includ	ed: 113 values 💙 Collapse al
Name					Туре	Value	State
HKEY	CLASSES_ROOT				System hive		
HKEY	CURRENT_USER				System hive		
🖃 🛄 S	oftware				Key		Changed
•	Classes				Key		Changed
-	Microsoft				Key		Changed
6	🗉 📗 AuthCookies				Key		Changed
	🗉 📗 Live	Import registry			Key		Changed
6	🗉 📗 IdentityCRL	Export registry			Key		Changed
	🗉 🔚 Immersiv	Now key			Key		Changed
6	Windows	New Key			Key		Changed
HKEY	LOCAL_MACHINE	New value			System hive		
🖃 🛄 S	OFTWARE	Properties	F2		Key		Changed
	Classes	Move to			Key		Changed
±	Clients	Exclude	Del		Key		Changed
±	Microsoft	Add to exclusion filte	r 🔸		Key		Changed
H	Mozilla	Delete	Shift+Dol		Key		Added
⊞ [Policies	Delete	Jinti Dei		Key		Changed
H	RegisteredApplic	APPV virtualization le	vel 🕨		Key		Changed
±	WOW6432Node				Key		Changed
🖃 🛄 S	ystem				Key		Changed
•	CurrentControlSe	t			Key		Changed
6	Services				Кеу		Changed
	🕀 🖿 MozillaM	aintenance			Кеу		Added
	E SharedAc	CESS			Key		Changed
	USERS				System hive		

 To review the captured services and exclude unnecessary ones, go to the System resources -> Services tab, and uncheck the checkbox, located before the service name in the list, for those services, which you want to exclude.

🔘 Edit package - PKG-19043	-144511.mg	р			- 🗆 X
≡ MENU Package	Files	Shortcuts\Apps	Registry	System resources	
			Services (1) Printers (0)	Environment variables (0)
Services Image: Service					Displayed name Mozilla Maintenance Service Description The Mozilla Maintenance Service ensures that you have the latest and most secure version of N Executable
					"C:\Program Files (x86)\Mozilla Maintenance Service\maintenanceservice.exe" Start parameters LocalSystem Dependencies:
					Start type i Manual
					Event Auto Fror control
					Normai



 In order to add and remove Environment variables, go to the System resources -> Environment variables tab, and select respective option from the context menu.

😂 Edit package - PKG-190430-144511.mgp	-	×
≡ MENU Package Files Shortcuts\Apps Registry System resources		
Services (1) Printers (0) Environment variables (1)		
Name Value Type + TestVer Value Add Delete Delete Delete		

- For managing MSI Settings such as application details, compression type, use of advertised tables, adding, active setup and the like, see section 3.8.6
- Finally, to generate an MSI package navigate to the Package -> MSI tab and click Build MSI.
 Edit package PKG-190430-144511.mgp

- cale package 1100 150450	-144511.mgp										-)
≡ MENU Package	Files	Shortcuts\Apps	Registry	System resources									
			MSI	MST	UWP	A	PV	THIN	IAPP				
Application Detail	ls				Ν	ISI Pacl	kage C	Optior	IS				
Application name					M	5I settings p	ofile						
Firefox					d	efault					~	E	dit
Publisher					Pro	oject folder							
Mozilla					0	:\Users\pa	ice\Docui	ments\N	ISI Generator\Packag	es\PKG-1	Browse	Go	to
Version		Product lang	uage		M	5I CodePage							
63.0.3		1033			() Nei	utral						
Product code					IN	STALLDIR							
				New GUID	C	\Program	Files (x86)\Mozilla	Firefox				
Upgrade code						RUUD	06	Detecto	d MSL installations			Ope	en loa
				New GUID	: т	vne	Flansed	Delecte	Sten				
Generate new codes wh	hen build MSI					Jbc	clupsed		ach				
Cummer and Informer	ation												
S I I PROPERTY I POTENT POTENT	ATION .												
Summary Informa	ation												
Title		Subject											
Title Installation Database		Subject											
Title Installation Database Author		Subject Keywords											
Title Installation Database Author		Subject Keywords Install,MS											
Title Installation Database Author Comments		Subject Keywords Install,MS											
Title Installation Database Author Comments This installer database cor	ntains the log	Subject Keywords Install,MS gic and data required	to install <pre>pre-</pre>	oduct name>.									
Title Installation Database Author Comments This installer database cor Platform	ntains the log	Subject Keywords Install,MS gic and data required Languages	to install <pre< td=""><td>oduct name>.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pre<>	oduct name>.									

• Once the package is built, click **Go to**..., located next to the **Project folder** field, to open the project folder in Windows Explorer. Find your package in the "MSI" subfolder.



Edit package - PKG-190430-144511.mgp							
≡ MENU Package Files Sho	rtcuts\Apps Reg	jistry System resourc	ces				
	M	si Mst	UWP	APPV	THINAPP		
Application Details			MS	I Package (Options		
Application name			MSI s	ettings profile			
Firefox			defa	ult		~	Edit
Publisher			Proiec	t folder			
Mozilla			C-\L	lsers\pace\Doci	ments\MSI Generator\Packages\PKG-1	Browse	Goito
1102110			0.10	sacia (pace (pace		browse	00 10
Version	Product language		MSIC	odePage			
63.0.3	1033		0	Neutral			~
Product code			INSTA	LLDIR			
{0A6CB50B-C191-4E46-B206-F07A76BAD9	57}	New GUID.	C:\P	rogram Files (x8	6)\Mozilla Firefox		~
Upgrade code				RUILD LOG	Detected MSI installations		Open loa
{99F27E0A-B935-4175-B70D-966E4D30203	0}	New GUID.	Туре	Flansed	Sten		
Generate new codes when build MSI			1910	00:00:59	Operation was completed successfully		
La Generate new codes when build wor				00:00:59	Writing data to the _Validation table		
Summary Information				00:00:59	Writing data to the CreateFolder table		
Title	Subject			00:00:59	Writing data to the AdvtExecuteSequence	e table	
Installation Database	Subject			00:00:59	Writing data to the InstallExecuteSequen	ce table	
Installation Database				00:00:59	Writing data to the CustomAction table		
Author	Keywords			00:00:59	Writing data to the MsiAssemblyName to	able	
	Install,MSI			00:00:59	Writing data to the MsiAssembly table		
Comments				00:00:52	Importing cabinet (CAB) file into the Misi	- PKG191_1.cab	
This installer database contains the logic an	d data required to inst	tall < product name>		00:00:52	Writing data to the Verb table		
				00:00:52	Writing data to the WIME table		
Platform	Languages		E!	ad time			
Autodetect	✓ 0		00:01	:00	🖸 🖸 Open	MSI 🐯	Build MSI



3.2 Create MST

Choose a scenario that better suits your needs:

- Create Blank MST, described in section 3.2.1 Create a blank transform file (MST) for your MSI package in MSI Editor. All changes, made to the opened MSI database, will be saved to the MST.
- Create Response MST, described in section 3.2.2 Capture all your inputs and changes, made to the Windows Installer UI dialogs of the MSI installation, and save them to the MST file using MSI Generator. The MSI installation will be simulated, which allows capturing all necessary changes very promptly and without affecting your real system.
- Capture System Changes to MST, described in section 3.2.3 Capture system changes, which were made to the file system and registry, by script, by application or manually and save them into MST file, generated against the selected MSI package using MSI Generator. Along with files and registry, services and environment variables, you can capture the modified permissions to the file system and registry.

3.2.1 Create Blank MST

Create a blank transform file (MST) for your MSI package in MSI Editor. All changes, made to the opened MSI database, will be saved to the MST.

NOTE PACE Suite supports two scenarious of saving changes to MST:

1. Open MSI -> create and apply MST -> modify the package -> save changes

2. Open MSI -> modify the package -> save changes as MST

The following describes the 1st scenario "Open MSI -> create and apply MST -> modify the package -> save changes".

• Launch MSI Editor from the desktop or the start menu shortcut.





Select Open... from the MENU to open the MSI package, which you want to modify via MST.
 MSI Editor

≡ MENU	
New MSI	Ctrl + N
New MST	
Open	Ctrl + O
Open recent	•
Apply MST to MSI	
Remove MST from MSI	
Save	Ctrl + S
Save as	
Create MSP against original	MSI
Generate package report	
Deploy to SCCM	
Active scripting	
Compare packages	
Edit	•
Import and export	•
Validation	•
Help	•
Quit	Alt + F4

• Choose an MSI package and click Open.

Open		~	·					×
← → • ↑) > Thi	s PC > Desktop		~	Ō	Search Desktop		Q
Organize 🔻 Ne	ew folde	r					•	?
🔹 Quick access		Name		Date modified		Туре	Size	
Desktop	×.	PACE_v5.0.0.msi		11/29/2018 3:03 A	M	Windows Installer	51,391	КВ
 Downloads Documents Pictures OneDrive This PC Network Homegroup 	* * *							
	File <u>n</u> a	me: PACE_v5.0.0.msi			~	All Supported File	s (*.msi;*.m Cance	nst ~ :l

- For managing package resources and settings, refer to the respective section of this document:
 - For managing Application Details see section 3.7.2
 Manage product name, version, language and manufacturer of the application.
 - For managing Package IDs see section 3.7.3
 Manage product, upgrade and package codes.



- For managing Files and Folders see section 3.7.4
 Review package files and folders, add new folders, import files, set permissions, register
 COM objects and .NET assemblies, set the INSTALLDIR folder and the like.
- For managing Shortcuts see section 3.7.5 Review package shortcuts, add new or import existing shortcuts, manage their properties.
- For managing Registry see section 3.7.6
 Review package registry, add new or import from REG file registry keys and values, integrate ActiveSetup, set permissions and the like.
- For managing Custom Actions see section 3.7.7
 Manage custom and standard actions of the package, add new one to run scripts, EXE, etc.
- For managing Drivers see section 3.7.8
 Review the package device drivers, modify and add new ones.
- For managing Features and Components see section 3.7.9
 Review the feature-component structure and resources, linked with components. Add new features, components and manage their properties.
- For managing ARP Appearance see section 3.7.10
 Control how the package will be displayed in the App list (Add & Remove Programs).
- For managing Upgrades see section 3.7.11
 Manage the package upgrade settings to automatically upgrade previous MSI packages.
- For managing MSI Properties see section 3.7.12
 Manage package properties, defined in the Property table and those, which will be updated by the CustomAction, AppSearch, Control, ComboBox, CheckBox, RadioButton tables.
- For managing Summary Information see section 3.7.13
 Manage Summary Information of the opened MSI/MST.
- For managing MSI Tables see section 3.7.14
 Add, import, drop MSI tables.
- For managing Merge Modules, described in section 3.7.15
 Create new MSM or importing existing MSM to the package.



For saving your package, select Save from the MENU.



3.2.2 Create Response MST

Capture all your inputs and changes, made to the Windows Installer UI dialogs of the MSI installation, and save them to the MST file using MSI Generator. The MSI installation will be simulated, which allows capturing all necessary changes very promptly and without affecting your real system.

Launch MSI Generator from the desktop of the start menu shortcut. •





• If you have the User Account Control enabled, click Yes to launch the application.



• Click Create response transform.





• Click Browse..., located next to the MSI package for tailoring field, to select an MSI package for tailoring. Note that the MSI installation will be simulated and will not affect your real system.

© Create a response transform						_		×
	•							
	MSI for tailoring	Installation simulation	Captured changes	Completi	on			
Select an MSI for Tai	loring							
MSI package for tailoring								
Apply transform (optional)						t	srowse	-
						E	Browse	
Command-Line options (MSI proper	ties only)							
☐ Ignore MSI launch condition	1							
NOTE A response transform is ar	n MST file contain	ing all yours inputs	and changes, ma	de to the Win	dows Installer (UI) D	ialogs	of the	
simulated MSI installation. The sir	nulated MSI insta	llation will not affect	your system.					
				< Back	Next >		Cancel	

• Choose an MSI package (e.g. VisualSVN-Server-3.2.3-x64.msi), for which you want to create a response transform, and click Open.

Select file						×
← → • ↑ 🖊	 This I 	PC > Downloads	~ č) Search Download	ls	Q
Organize 🔻 New	folder				-	?
- Quick accore		Name	Date modified	Туре	Size	
Desktop	*	VisualSVN-Server-3.2.3-x64.msi	2/21/2017 3:32 PM	Windows Installer	8,220 KB	
Downloads	A					
Documents	*					
Pictures	*					
ineDrive 🍊 🍊						
💻 This PC						
鹶 Network						
•4 Homegroup						
F	File <u>n</u> am	e: VisualSVN-Server-3.2.3-x64.msi		✓ Windows Installe Open	er database (*.n Cancel	~

• The Apply transform (optional) and Command-Line options (MSI properties only) fields are optional and they allow applying additional MST and setting MSI properties before the MSI tailoring. Select the Ignore MSI launch condition option to skip all condition from the



inchCondition MSI tab	ole.						
Create a response transform					_		
	•						
t t	MSI for ailoring	Installation simulation	Captured changes	Completion			
elect an MSI for Tailori	ng						
5I package for tailoring							
::\Users\pace\Downloads\VisualS\	/N-Server-3	.2.3-x64.msi				Browse	
ply transform (optional)							
						Browse	
mmand-Line options (MSI properties o	nly)						
Ignore MSI launch condition							
DTE: A response transform is an MST	file containir	a all vours inputs	and changes may	le to the Windows Install	er (LII) Dialoc	rs of the	
nulated MSI installation. The simulate	ed MSI installa	ation will not affect	: your system.	to the windows install	er (OI) Dialog	is of the	

• Click Next to start the MSI installation simulation.

Create a response transform					_		×
	•						
	MSI for tailoring	Installation simulation	Captured changes	Completion			
Select an MSI for Ta	iloring						
MSI package for tailoring							
C:\Users\pace\Downloads\V	isualSVN-Server-	3.2.3-x64.msi				Browse	
Apply transform (optional)							
						Browse	
Command-Line options (MSI prop	erties only)						
NOTE A response transform is a simulated MSI installation. The s	an MST file contain imulated MSI insta	ing all yours inputs llation will not affect	and changes, ma : your system.	de to the Windows Insta	aller (UI) Dia	logs of the	

• Complete the simulated MSI installation following the Windows Installer dialogs and choosing options you need to be captured and saved to the response transform.



• Review captured information, which will be saved to the response transform (MST) file, by opening the **Properties**, **Features** and **Dicrectories** tabs. Click **Add** to create new or click



Remove to remove the selected item in the opened tab.

Create a response t	transform								>
				_					
		MSI for	Installation	Captured	Complet	ion			
		tailoring	simulation	changes					
aptured cha	anges								
Properties	Features	Directories							
ems		Old value		New v	alue		Capture	ed state	
icenseAccepted				1			Created	1	
howMigratePermissio	onsReport			0			Created		
eature_AddSvnToPatl	h			1			Created		
BrowseProperty				INSTA	LLDIR		Created		
lanagerOnly		0		1			Update	d	
ideBannerBitmap		WixUI_Bm	p_Side	WixUI	Png_Side		Update	d	
opBannerBitmap		WixUI_Bm	p_Top	WixUI	Png_Top		Update	d	
pdatePathVariable		1					Remove	ed	
IpdatePathVariable		1					Remove	ed	
Add	Remove							Total row	/s:

• Click Next to choose the saving options.

Create a response transform					— 🗆 X
					
	MSI for tailoring	Installation simulation	Captured changes	Completion	
Captured changes					
Properties Features	Directories				
Items	Old value		New va	lue	Captured state
LicenseAccepted			1		Created
ShowMigratePermissionsReport			0		Created
Feature_AddSvnToPath			1		Created
_BrowseProperty			INSTAL	LDIR	Created
ManagerOnly	0		1		Updated
SideBannerBitmap	WixUI_Bmp	_Side	WixUI_F	ng_Side	Updated
TopBannerBitmap	WixUI_Bm;	_Тор	WixUI_F	ng_Top	Updated
UpdatePathVariable	1				Removed
Add Remove					Total rows: 8
				K Back Next	t > Cancel

• We recommend to leave the Save the response transform and continue with customizing it in editor option selected to open the generated MST in MSI Editor. For changing the destination location and MST file name click Browse... Click Finish to create the response transform.

Create a response transform						—		×
								
	MSI for tailoring	Installation simulation	Captured changes	Completi	on			
Completion								
The responce transform has been	captured succes	fully.						
 Save the responce transform Save the responce transform 	and continue v and go back to	vith customizing it start screen	in editor					
Responce transform location								
C:\Users\pace\Desktop\Source	es\VisualSVNSe	rver\VisualSVN-Se	rver-3.2.3-x64.	mst			Browse.	
				< Back	Finish		Cancel	

3.2.3 Capture System Changes to MST

Capture system changes, which were made to the file system and registry, by script, by application or manually and save them into MST file, generated against the selected MSI package using MSI Generator. Along with files and registry, services and environment variables, you can capture the modified permissions to the file system and registry.

• Launch MSI Generator from the desktop of the start menu shortcut.





• If you have the User Account Control enabled, click Yes to launch the application.



• Click Capture installation.





• Review the issues, which were detected on your system, and try to resolve them by closing the non-essential applications and stopping services. Thereafter, click Next >.

Capture installation					Х
•					
Prepare Ca computer n	apturing Settings Ir nethod	nstallation Completion			
Prepare the computer for cap	oturing				
It is strongly recommended to perform captu avoid capturing data, which is not related to virtual machine to the previous state. The follwing issues were detected on your system:	uring on a clean virtual machine v your source installation. Also, in o	with all non-essential processes case of any failure, you will be a	stopped able to re	in order store the	to e
Description	Resolution				
Diagnostic Policy Service is active.	Stop this service before capturing.				
Windows Defender Antivirus Service is active.	Stop this service before capturing.				
Security Center is active.	Stop this service before capturing.				
Windows Search is active.	Stop this service before capturing.				
Windows Defender is running.	Close your antivirus software before ca	apturing.			
Refresh		Review the captu	uring recon	nmendati	ons
		< Back Next >		Cancel	



• Select the Monitoring method for the quicker capturing (or use the Snapshotting one if you need to continue capturing after the system restart) and click Next >.

Capture installation								×
								
	Prepare computer	Capturing method	Settings	Installation	Completion			
Select a captu	iring method	ł						
Monite This m	oring (quick) nethod watches the	e installation and I	records system c	hanges to a packa	age.			
O Snapsl This m differe	hotting (configural nethod creates two nce between snap	ble) 9 system snapshot 9shots. Use this op	s (before and aft ption if your sour	er the installation) ce installation requ	and builds a pack uires the system re	age, bas start.	sed on	
				< Back	Next >		Cancel	
					L			



 Review and update package name. If needed, disable unnecessary exlusion filters and scanning areas. Click Next > to start the capturing.

Capture installation	_	_		<u> </u>		_		×
	Prepare computer	Capturing method	Settings	Installation	Completion			
Settings								
Package name PKG-170912-154800								
Exclusion filters			Scannin	g areas				
Apply the following f AllWindowsOS Win7 Win8-10	ilters to the capt	ured resources:	Appli ☑ ☑ ☑	cation objects: Permissions Services Printers				
				< Back	Next >		Cancel	

• Now you can make any changes to the file system and registry, which you want to capture and include to the package. For instance, you can copy files, import REG file to the system registry, change file, folder permissions, or launch the installed application in order to capture the necessary application configurations, like disabling updates and so on.

In case of necessity, to change the default permission settings for a folder or a file, select **Properties** from the Windows Explorer context menu of a folder, for which you want to set new permissions.



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And select a group or a user, for which you want to change the permissions and then select the necessary access rights. For example, lets set the 'Write' and the 'Modify' access rights for



the 'Users' group. Then click Apply and OK.

Permissions for Mozilla Firefo	x		
Security			
Object name: C:\Program Files	(x86)\Mozilla Firefo	ж	
CREATOR OWNER			^
Administrators (WIN10X64-VI & Users (WIN10X64-VM\Users & TrustedInstaller	M\Administrators))		
<		>	Ť
	A <u>d</u> d	<u>R</u> emove	
Permissions for Users	Allow	Deny	
Full control			^
Modify Read & execute			
List folder contents	 ✓ 		
Read	\checkmark		~

• Finally, to complete the capturing, select I have finished the installation and click Next >.

٥

🕽 Capture in	nstallation								\times
									
		Prepare computer	Capturing method	Settings	Installation	Completion			
nstall y	our appl	ications n	ow						
Now is the	time to run ir and run" fur	nstallers of the a nctionality.	applications, whic	h you want to ca	apture. You can ru	n installers either n	nanually	or using	9
Select	and run								
etected MSI	Installation								
State	Copied	Name							
Note that it	is not recom nd switch to o	mended to rep customizing th ompleted, sele	package MSI to M em via a transforr ct "I have finished	SI. If you have ir n in Editor. the installation"	istantly detected a and click "Next".	nd copied MSI inst	tallations	, cancel	
I have fir	nished the ins	tallation							
I have fir	nished the ins	tallation			< Back	Next >		Cancel	



• Wait a little, while the capturing process is finishing, filtering captured data and creating the project.

Capture installation								×
								
	Prepare computer	Capturing method	Settings	Installation	Completion			
Install your app	olications n	ow						
Now is the time to run the "Select and run" f	installers of the unctionality.	applications, which	h you want to ca	pture. You can ru	n installers either r	manually	or using	9
Select and run								
Detected MSI Installation								
State Copied	Name							
Note that it is not race	mmandad to ray	aackago MSI to M	SL If you have in	taptly datacted a	and conied MSL inc	tallation	- cancel	
capturing and switch t	o customizing th	em via a transforn	n in Editor.	stantiy detected a	and copied wishins	tallation	s, cancel	
Once the installation is	completed, sele	ct "I have finished	the installation"	and click "Next".				
I have finished the i	nstallation							
🕑 00:08 Scanning Scanning	Services							
				< Back	Next >		Cancel	



• Leave selected both the Customize project in editor and Copy all captured files to the project folder now options and click Finish.

Capture instal	lation					_		×
								
	Prepare computer	Capturing method	Settings	Installation	Completion			
Completic	n							
Important: be i functionality. Ex	nformed that some of ca clude those unnecessary	aptured files and r / resources using	registry, which de editor.	o not belong to yo	our application, ma	ay affect	package	2
 Customize p Stop now an 	roject in editor d save project							
✓ Copy all cap	tured files to the project	folder now						
Project summary								
Project folder	:: C:\Users\pace\Docume	ents\MSI Generato	or\Packages\PKG	-170913-154800 ((Go to)			
Files:	473 (909,7 MB)							
Registry:	451							
Services:	1							
Printers:	0							
				< Back	Finish		Cancel	
				, buck	L		Contect	

• If some of captured files are locked or missing and as result they could not be copied to the project folder, they will be displayed as illustrated below. Usually, the displayed files are system noise and do not refer to the captured application. Click **Finish** to continue with skipping locked and missing files. Note that such files will be automatically marked as 'Excluded' in your



Capture	installation		×	
		_		
	Prepare Capturing Settings Installation Completion computer method			
ompl	etion			
followi	ng files could not be conied to the project folder because they are locked or missing:			
ate	File path			
ocked	C:\Users\pace\ntuser.dat.LOG1			
ocked	C:\Users\pace\NTUSER.DAT			
lissing	C:\Users\pace\AppData\Local\Temp\b8b61adf-14ff-4926-95ef-16f3638de72f\snapshot2.xml			
ocked	C:\Users\pace\AppData\Local\Microsoft\Windows\UsrClass.dat.LOG1			
ocked	C:\Users\pace\AppData\Local\TileDataLayer\Database\EDB.log			
ocked	C:\Windows\System32\config\SOFTWARE.LOG1			
Detr				
Ketr	y			
, to rort	are missing and uplack lasked files and then slick "Dates". Click "Sinish" to proceed creating the project and	Lekin		
ovina la	ore missing and unlock locked lifes and then click. Kerry , click, rimish, to proceed cleaning the project and tocked and missing files to the project folder. Note that such files will be marked as "Excluded".	тякір		
-)g				

 Once the project is opened in the project editor, it is strongly recommended to review the Files, Shortcuts\Apps, Registry and System resources tabs and exclude the accidentally captured resources, which do not belong to the application. Such accidentally captured resources are also called system noise and it could be Windows Updates, Search indexing, Antivirus software and so on.

An MSI package with such resources may fail during the installation. The common reason for such fails is trying to write a registry value to the system-protected location, strongly prohibited from writing by third-party installations.

• In order to review the captured files and folders and exclude unnecessary ones, go to the Files tab, and select Exclude from the context menu of an item, which you want to exclude. Note



that the excluded items are highlighted in yellow and crossed out.

😂 Edit package - P	KG-190430-	144511.mgp								-		×
	Package	Files	Shortcuts\Ap	ops Ré	egistry	System resources						
Files and fo	olders								Included: 124 files (197,6 MB) 7	Collapse al	ll -
Name								Туре	Size	State		
🖃 🛛 C:								Folder		Changed		
E Progr	ram Files (x86	5)						Folder		Changed		
۹ 🖿 🗷	Mozilla Fire	efox						Folder		Added		
• M	Iozilla Mainte	enance Service						Folder		Added		
E Progr	ramData							Folder		Changed		
• M	licrosoft							Folder		Changed		
Users	;							Folder		Changed		
🕀 🛄 pi	ace							Folder		Changed		
🕀 🛄 Pi	ublic							Folder		Changed		
E Wind	ows							Folder		Changed		
🕀 🛄 ei	ppcompat							Folder		Changed		
. E P	refetch							Folder		Changed		
= S	ystem32							Folder		Changed		
	config	Import files						Folder		Changed		
	DE	New subfold	er					LOG2	202,0 KB	Changed		
	SO 📄	Properties		F2	-			LOG1	16,0 MB	Changed		
	SY:	Move to fold	lor	12				LOG1	1004,0 KB	Changed		
=	SleepS		lei	D.I.				Folder		Changed		
	🖹 Us	Exclude		Del				ETL	320,0 KB	Changed		
-	winevt	Add to exclu	ision filter		•			Folder		Changed		
9	E Lo	Delete		Shift+Del				Folder		Changed		
	emp	APPV virtual	ization level		•			Folder		Changed		
Add 🔺	Exclud	de										

 To review the captured MSI shortcuts and exclude unnecessary ones, go to the Shortcuts\Apps -> MSI tab, and select Exclude from the context menu of an item, which you want to exclude.

Edit package	e - PKG-190430-1	44511.mgp							– 🗆 ×
	Package	Files	Shortcuts\Apps	Registry	System resour	ces			
					MSI	UWP	APPV		
MSI shor	rtcuts							Included: 2 shortcuts	Collapse all
Name							Туре	Target	State
🖃 🔤 C:							Folder		Changed
🗉 📄 Pi	rogram Files (x86)						Folder		Changed
E Pr	rogramData						Folder		Changed
8	Microsoft						Folder		Changed
Θ	E Search						Folder		Changed
G	Windows						Folder		Changed
	🖃 📄 Start M	enu					Folder		Changed
	Pro	grams					Folder		Changed
	6	Firefox.Ink					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp						Folder		Changed
•	Windows D	efender					Folder		Changed
	lsers						Folder		Changed
± _	pace						Folder		Changed
8	Public						Folder		Changed
G	Desktop						Folder		Changed
	👵 Firefox.	lnk Imp	ort chortcuts	-			Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
• V	Vindows	N	on shortcuts				Folder		Changed
		Nev	v snortcut						
		Nev	vsubtolder						
		Prop	perties	F2					
		Mov	ve to folder						
		Excl	ude	Del					
		Add	to exclusion filte	r ▶					
Add 🔺	Exclude	e Dele	ete	Shift+Del					



 To review the captured registry keys and values and exclude unnecessary ones, go to the Registry tab, and select Exclude from the context menu of an item, which you want to exclude.
 Edit package - PKG-190430-144511.mgp

MENU	Package	Files Shortcuts\App	Registry	System resources			
Registry						Included	: 113 values 💙 Collapse al
Name					Туре	Value	State
HKEY	CLASSES_ROOT				System hive		
HKEY	CURRENT_USER				System hive		
🖃 🛄 S	oftware				Key		Changed
•	Classes				Key		Changed
-	Microsoft				Key		Changed
6	🗉 📗 AuthCookies				Key		Changed
	🗉 📕 Live	Import registry			Key		Changed
6	🗉 📗 IdentityCRL	Export registry			Key		Changed
	🗉 📗 Immersiv	Now kov			Key		Changed
Windows				Key		Changed	
HKEY	LOCAL_MACHINE	New value			System hive		
🖃 🛄 S	OFTWARE	Properties	F2		Key		Changed
±	Classes	Move to			Key		Changed
±	Clients	Exclude	Del		Key		Changed
±	Microsoft	Add to exclusion filter	•		Key		Changed
H	Mozilla	Delete	Shift+Dol		Key		Added
• C	Policies	Delete	Juictber		Key		Changed
H	RegisteredApplic	APPV virtualization lev	el 🕨		Key		Changed
±	WOW6432Node				Key		Changed
🖃 🛄 S	ystem				Key		Changed
	CurrentControlSe	t			Key		Changed
6	Services				Key		Changed
	🕀 🖿 MozillaM	aintenance			Key		Added
	E SharedAc	cess			Key		Changed
	USERS				System hive		

 To review the captured services and exclude unnecessary ones, go to the System resources -> Services tab, and uncheck the checkbox, located before the service name in the list, for those services, which you want to exclude.

Edit package - PKG-190430	144511.mg	р			– 🗆 X
≡ MENU Package	Files	Shortcuts\Apps	Registry	System resources	
			Services	(1) Printers (0)	Environment variables (0)
Services Image: Service servi			Services	(<u>1</u>) Printers (0)	Environment variables (0) Displayed name Mozilla Maintenance Service Description The Mozilla Maintenance Service ensures that you have the latest and most secure version of M Executable "C:\Program Files (x86)\Mozilla Maintenance Service\maintenanceservice.exe" Start parameters LocalSystem Dependencies: Start type Manual V Event Auto V Error control
					Normal 🗸



 In order to add and remove Environment variables, go to the System resources -> Environment variables tab, and select respective option from the context menu.

•

• Finally, to build an MST from the project, navigate to the Package -> MST tab, click Browse..., located next to the MSI file field.

Edit package	- PKG-190430-	144511.mgp								·	X
≡ menu	Package	Files	Shortcuts\Apps	Registry	System resources						
				MSI	MST U	WP A	PPV	THINAPP			
Application	on Details	5				Transfo	r <mark>m Opt</mark>	tions			
Application nam	ne					MSI settings	profile				
					0	default			~	Edit	
Publisher						Project folder	r				
					0	C:\Users\p	ace\Docu	iments\MSI Generator\Packages\PKG-1	Browse	Go to.	
Version			Product lar	iguage		MSI file					
			•		0			~	Browse	Go to.	
Product code						Transform					
					New GUID	🗹 Properti	es	Update files	🗹 Update regi	sty	
Upgrade code						Features		Add files	☑ Add registry	r.	
					New GUID						
Generate r	new codes whe	en build MS	51			BUILD	LOG	Detected MSI installations		Open le	og
Cumanaan	Informat	tion				Туре	Elapsed	Step			
Summary	morma	lion									
Title			Subject								
Author			Keywords								
Comments											
Platform			Languages								
Autodetect			✓ 0			Elapsed time 00:00	1	C Op	en MST 🛛 😋	Build M	ST

• Choose an MSI package (e.g. Firefox.msi), against to which you want to create a transform (MST), and click Open.

Browse for MSI ten	nplate fil	e							×
← → ~ ↑ 🖊	> This	PC > Downloads			√ Ū	Search Down	loads		P
Organize 👻 Nev	w folder								?
📌 Quick access		Name	^	Date modified	Туре		Size		
Desktop	*	🔀 Firefox.msi		9/13/2017 6:39 PM	Window	s Installer	81,614	KB	
Downloads	7								
🔮 Documents	*								
Pictures	*								
a OneDrive									
💻 This PC									
i Network									
•4 Homegroup									
	File <u>n</u> an	ne: Firefox.msi			~	MSI Files(*.n	nsi)		\sim
						<u>O</u> pen		Cancel	

• Update the required Application details such as name, publisher, version, language and click Build MST to generate a transform (MST) file. Note that the generated MST will contain only those resources that do not exist in the selected MSI package (in other words, MST will contain only the difference between the project's and MSI resources).

Edit package - PKG-190430-144511.mgp							-	×
	tcuts\Apps Reg	gistry Sy	ystem resources					
	Μ	SI	MST	UWP	APPV	THINAPP		
Application Details				Transfo	orm Opt	ions		
Application name				MSI setting	s profile			
Firefox				default			~	Edit
Publisher				Project fold	ler			
Mozilla				C:\Users	\pace\Docu	ments\MSI Generator\Packa	ges\PKG-1 Browse	Go to
Version	Product language			MSI file				
63.0.3	1033			Firefox.m	si		 Browse 	Go to
Product code				Transform				
{B41A6750-72C9-4687-BDFC-658F9749FD1/	4}		New GUID	✓ Proper	ties	☑ Update files	☑ Update regis	ty
Upgrade code				🗹 Feature	es	Add files	Add registry	
{467AF3F0-F2CE-448D-BBAE-92C5FB66EB9	E}		New GUID					
Generate new codes when build MSI				BUIL	D LOG	Detected MSI installations		Open log
Summary Information				Туре	Elapsed	Step		
Title	Subject							
Installation Database								
Author	Keywords							
	Install,MSI							
Comments								
This installer database contains the logic and	d data required to ins	tall <produc< td=""><td>t name>.</td><td></td><td></td><td></td><td></td><td></td></produc<>	t name>.					
Platform	Languages			Elanced tin				
x64	0			00:00	ile ile		🖸 Open MST 🗳	Build MST



Once the MST file is created, click Go to..., located next to the Project folder field, to open the project folder in Windows Explorer. Find your MST file in the "MST" subfolder.

🕲 Edit package - P	PKG-190430-	144511.mg	p									-	- 🗆	×
	Package	Files	Shortcuts\	Apps	Registry	System resources								
					MSI	MST	UWP		APPV	THINAPP				
Application	Details	5						Transf	orm Op	tions				
Application name								MSI setting	gs profile					
Firefox								default				~	Ed	it
Publisher								Project fol	der					
Mozilla								C:\Users	s\pace\Docu	uments\MSI Generator\Packages\	PKG-1	Browse	Go t	o
Version			Dr	oduct langu	1200			MSI file						
63.0.3			1	033	lage			Firefox m	nsi		~	Browse	Golt	0
Desite the set								THEIOXIN				browse	001	
Product code	52 4027 02		000001721			New CUID		Transform						
{43A598DD-0F	52-4837-83	86-D40EU	JUBC21/3}			New GUID		I Prope	rties	Update files		🗹 Update regi	sty	
Upgrade code								🗹 Featur	res	Add files		🗹 Add registry	/	
{D67BE978-A49	9D-4CDB-A	EE2-0247	BE3B1867}			New GUID								
Generate new	codes whe	en build M	ISI					BUI	LD LOG	Detected MSI installations			Open	log
								Туре	Elapsed	Step				
Summary I	nformat	tion						- E	00:00:12	Operation was completed su	ccessfully			
Title			Su	biect				- I.	00:00:12	Writing data to the _Validation	on table			
Installation Data	abasa								00:00:12	Writing data to the CreateFo	lder table			
Installation Date	00030								00:00:12	Writing data to the AdvtExec	uteSequer	ice table		
Author			Ke	ywords				-	00:00:12	Writing data to the InstallExe	cuteSeque	ence table		
			li li	nstall,MSI					00:00:12	Writing data to the CustomA	ction table			
Comments									00:00:12	Writing data to the MsiAsser	nbiyiName	table		
This installer da	tabase con	tains the lo	ogic and data	required	to install <pr< td=""><td>oduct name>.</td><td></td><td></td><td>00:00:12</td><td>Writing data to the Media ta</td><td>hle</td><td></td><td></td><td></td></pr<>	oduct name>.			00:00:12	Writing data to the Media ta	hle			
								1	00:00:12	Writing data to the Verb tabl	e			
Platform			La	nguages				The second state			-			
x64			~ 0)				00:00:13	me		건 Ope	n MST 🔀	Build N	MST


3.3 Create MSP

Choose a scenario that better suits your needs:

- Generate MSP on Difference, described in section 3.3.1 Create a Patch (MSP) package, based on differences between two MSI packages: recent and old ones.
- Save Changes as MSP, described in section 3.3.2 Save changes, made to the opened MSI database, as a Patch (MSP) package.

NOTE Adhere to the following restrictions during creating a Patch package:

- Do not move files from one folder to another.
- Do not move files from one CAB to another.
- Do not change the order of files in a CAB.
- Do not change the sequence number of existing files. The sequence number is the value specified in the Sequence column of the File Table.
- Any new files that are added by the patch must be placed at the end of the existing file sequence. The sequence number of any new file in the upgraded image must be greater than the largest sequence number of existing files in the target image.
- Do not change the primary keys in the File Table between the original and new .msi file versions.

3.3.1 Generate MSP on Difference

Create a Patch (MSP) package, based on differences between two MSI packages: recent and old ones.

• Launch MSI Editor from the desktop or the start menu shortcut.





MSI Editor

• Select Open... from MENU.

New MSI	Ctrl + N
New MST	
Open	Ctrl + O
Open recent	•
Apply MST to MSI	
Remove MST from MSI	
Save	Ctrl + S
Save as	
Create MSP against original I	MSI
Generate package report	
Deploy to SCCM	
Active scripting	
Compare packages	
5 m	
Edit	ŀ
Import and export	•
Validation	•
Help	•
Quit	Alt + F4

• Choose a recent MSI package, containing new resources in comparison to the previous MSI package, and click **Open**.

le Open	I				×
← → • ↑ 드 ›	This PC > Desktop		ٽ ~	Search Desktop	Ą
Organize 🔻 New	folder				• 🔳 🕜
📌 Quick access	Name i PACE_v4.7.0.msi PACE_v5.0.0.msi	َ ۱ ۱	Date modified	Type Windows Installer Windows Installer	Size 52,068 KB 51.391 KB
 Downloads Documents Pictures OneDrive This PC Network Homegroup 	A A A				
F	ile <u>n</u> ame: PACE_v5.0.0.msi		~	All Supported Files Open	(*.msi;*.mst > Cancel



■ MENU

New MSI...

New MST... Open...

Open recent Apply MST to MSI ...

Save

Edit

Validation Help Quit

Save as...

Deploy to SCCM ...

Active scripting...

Compare packages...

Import and export

Select Create MSP against original MSI... from MENU. •

۲

Alt + F4



Medium

Recalculate Export results to file

Servi

ODB

ICE e

Click Browse... to choose an original MSI package, which is a previous version of the currently • opened one

Create a Patch Package							×
	•						
	Original MSI	Type of update	Patch properties	Creating patch			
Choose original N	VISI package						
Choose an original MSI, w will be saved as a patch (N Original MSI	/hich is a previous versio /ISP).	on of currently o	opened package. ⁻	The differences bet	ween these	two packag	es
						Browse	
				K Back N	ext >	Cance	



• Choose an original (old) MSI package, which is a previous version of the currently opened one, and click Open.

Open					×
$\leftarrow \rightarrow \cdot \uparrow$	> This	PC > Desktop	ٽ ~	Search Desktop	Q
Organize 👻 Ne	ew folder				• 🔳 🕐
🛃 Ouick access		Name	Date modified	Туре	Size
		🔁 PACE_v4.7.0.msi	12/4/2018 11:59 AM	Windows Installer	52,068 KB
Desktop	*	PACE_v5.0.0.msi	11/29/2018 3:03 AM	Windows Installer	51,391 KB
🔮 Documents	*				
Pictures	*				
OneDrive					
🛄 This PC					
i Network					
• 4 Homegroup					
	File na	met DACE v470 mci		Windows Installer	Database (* r. V
	7 ne <u>11</u> 81			<u>O</u> pen	Cancel

• Click Next to define an update type.

🔋 Create a Patch Package	· · · · ·				_	_		×
	•							
	Original MSI	Type of update	Patch properties	Creating patch				
Choose original I	MSI package							
Choose an original MSI, v will be saved as a patch (I Original MSI	vhich is a previous versi MSP).	on of currently o	opened package.	The differences bet	ween these	two į	packag	es
C:\Users\pace\Desktop\	PACE_v4.7.0.msi					E	Browse.	
				N	ext >		Cancel	

 Increase a Product version value for the minor and major update and leave default one for the small update. Generate new Product code only for the major update and leave default one for the minor and small update. If needed, update a Target product name in order to change the



Create a Patch Package					_		>
	~	_					
	Original MSI	Type of update	Patch properties	Creating patch			
Гуре of update							
ncrease version for minor a	and major update and	d leave default v	alue for small upd	ate			
5004							
roduct code (CFE7D213-DB0C-4B8B-97	r major update and le 732-FF995F09B482}	eave default val	ue for minor and s	mall update		New GUI	D
Product code {CFE7D213-DB0C-4B8B-97 farget product name	r major update and le 732-FF995F09B482}	eave default val	ue for minor and s	mall update		New GUI	D
Product code {CFE7D213-DB0C-4B8B-97 Target product name PACE Suite	r major update and le 732-FF995F09B482}	ave default vali	ue for minor and s	mall update		New GUI	D
Product code {CFE7D213-DB0C-4B8B-9; farget product name PACE Suite Review the instructions to create	r major update and le 732-FF995F09B482} e a patch package succes	sfully	ue for minor and s	mall update		New GUI	D
Product code (CFE7D213-DB0C-4B8B-9) Target product name PACE Suite Review the instructions to create	r major update and le 732-FF995F09B482} e a patch package succes	sfully	ue for minor and s	mall update		New GUI	D
Generate new code only to Product code {CFE7D213-DB0C-4B8B-97 Target product name PACE Suite Review the instructions to create	r major update and le 732-FF995F09B482} e a patch package succes	sfully	ue for minor and s	mall update		New GUI	D

• Update Patch Display name, Description and select the necessary Patch properties. Click Create to create the Patch (MSP) package.

🗐 Create a Patch Package					_		×
	~						
	Original MSI	Type of update	Patch properties	Creating patch			
Patch properties							
Display name							
PACE Suite 5.0.0.4 Patch							
Description							
Patch desription							
Changed files are to be in patch files will be bigger i	cluded in their entire n size but the API ru	ety when creatir ns faster.	ng the patch packa	age instead of creati	ing a binary fil	e patch.	The
				Back Cre	ate 🔪	Cance	2

• Please wait a little, while the Patch package is creating.

Create a Patch Package							×
				•			
	Original MSI	Type of update	Patch properties	Creating patch	g		
Creating patch							
	Creating	patch					
				< Back	Finish	Cance	

٥

• Enter a name of the Patch package, choose its destination location and click Save.

🥥 Save As					×
$\leftarrow \rightarrow \checkmark \uparrow$	> This PC > Desktop	ٽ ~	Search Desktop		P
Organize 👻 Ne	w folder				?
🖈 Quick access	▲ Name	Date modified	Туре	Size	
E. Desktop	*	No items match your search.			
🕂 Downloads	*				
🔮 Documents	*				
Pictures	*				
OneDrive					
💻 This PC					
💣 Network					
•4 Homegroup	v				_
File <u>n</u> ame:	PACE_v5.0.0 5.0.0.4 patch.msp				~
Save as <u>t</u> ype:	Windows Installer Patch (*.msp)				\sim
∧ Hide Folders			<u>S</u> ave	Cancel	



•

Finish Cancel	Click Finish to close t	the wizard.						
Original MSI Type of update Patch Creating patch Creating patch Patch Package was created successfully.	Create a Patch Package							×
Original MSI Type of update Patch properties Creating patch Creating patch Patch Package was created successfully. Finish		~						
Creating patch Patch Package was created successfully:		Original MSI	Type of update	Patch properties	Creating patch			
Patch Package was created successfully.	Creating patch							
Finish Cancel	Patch Package was created s	uccessfully.						
Finish Cancel								
Finish Cancel								
Finish Cancel								
Finish Cancel								
Finish Cancel								
Finish Cancel								
Finish Cancel								
Finish Cancel								
Finish Cancel								
Finish Cancel								
Finish Cancel								
Finish Cancel					_			
						Finish	Cance	2

3.3.2 Save Changes as MSP

Save changes, made to the opened MSI database, as a Patch (MSP) package.

Launch MSI Editor from the desktop or the start menu shortcut. •





MSI Editor

• Select Open... from MENU.



≡ MENU	
New MSI	Ctrl + N
New MST	Ctrl + O
Open recent	Cui + O
Apply MST to MSL.	
Remove MST from MSI	
Save	Ctrl + S
Save as	
Create MSP against original M	VISI
Generate package report	
Deploy to SCCM	
Active scripting	
Compare packages	
Edit	•
Import and export	,
Validation	•
Help	•
Quit	Alt + F4

• Choose an MSI package, for which you want to create a Patch (MSP) package, and click Open.

Open					<u> </u>	×
← → • ↑ 🗖	> This F	PC > Desktop	ٽ ~	Search Desktop		P
Organize 🔻 Ne	w folder				•	?
🔹 Quick access		Name	Date modified	Туре	Size	
Desktop	A	骨 PACE_v5.0.0.msi	11/29/2018 3:03 AM	Windows Installer	51,391 KE	5
 Downloads Documents Pictures OneDrive This PC Network 	\$* \$* \$					
• 4 Homegroup	File <u>n</u> am	e: PACE_v5.0.0.msi	~	All Supported Files	(*.msi;*.mst Cancel	×

- Now you can start adding the necessary resources, which you want to include to the Patch (MSP) package. For managing package resources and settings, refer to the respective section of this document:
 - For managing Application Details see section 3.7.2
 Manage product name, version, language and manufacturer of the application.
 - For managing Package IDs see section 3.7.3
 Manage product, upgrade and package codes.



- For managing Files and Folders see section 3.7.4
 Review package files and folders, add new folders, import files, set permissions, register
 COM objects and .NET assemblies, set the INSTALLDIR folder and the like.
- For managing Shortcuts see section 3.7.5 Review package shortcuts, add new or import existing shortcuts, manage their properties.
- For managing Registry see section 3.7.6
 Review package registry, add new or import from REG file registry keys and values, integrate ActiveSetup, set permissions and the like.
- For managing Custom Actions see section 3.7.7
 Manage custom and standard actions of the package, add new one to run scripts, EXE, etc.
- For managing Drivers see section 3.7.8
 Review the package device drivers, modify and add new ones.
- For managing Features and Components see section 3.7.9
 Review the feature-component structure and resources, linked with components. Add new features, components and manage their properties.
- For managing ARP Appearance see section 3.7.10
 Control how the package will be displayed in the App list (Add & Remove Programs).
- For managing Upgrades see section 3.7.11
 Manage the package upgrade settings to automatically upgrade previous MSI packages.
- For managing MSI Properties see section 3.7.12
 Manage package properties, defined in the Property table and those, which will be updated by the CustomAction, AppSearch, Control, ComboBox, CheckBox, RadioButton tables.
- For managing Summary Information see section 3.7.13
 Manage Summary Information of the opened MSI/MST.
- For managing MSI Tables see section 3.7.14
 Add, import, drop MSI tables.
- For managing Merge Modules, described in section 3.7.15
 Create new MSM or importing existing MSM to the package.



• In order to save your chages as Patch (MSP) package, select Save as... from MENU.



• Choose the Windows Installer Patch (MSP) option and click Save.

Save As	×							
Saving options								
O Windows Installer Database (MSI) Merge the changes with the database and save them to a new MSI file.								
 Rebuild Windows Installer Database (MSI) Merge the changes with the database and save them to a new MSI file. Rebuild this new MSI with the selected compression type. 								
O Windows Installer Transform (MST) Save the changes to a new MST file.								
 Windows Installer Patch (MSP) Create the Patch package based on the current changes. 								
☑ Open the save-to folder afterwards								
Save Cancel								

• Increase a **Product version** for the minor and major update and leave default for the small update. Generate new **Product code** only for the major update and leave default for the minor and small update. If needed, update a **Target product name** in order to change the Product



Name of the updated application. Click Next to select patch properties.

-				-		\times
	•					
	Type of update	Patch properties	Creating patch			
Type of update						
Increase version for minor and ma Product version	ajor update and leave	default value for s	small update			
5.0.0.4						
{CIL/D213-D00C-4000-3/32-II	5551 050402}				New Gu	
Target product name						
Target product name PACE Suite Review the instructions to create a patc	h package successfully					
Target product name PACE Suite Review the instructions to create a patc	h package successfully					
Target product name PACE Suite Review the instructions to create a patc	h package successfully					
Target product name PACE Suite Review the instructions to create a patc	h package successfully					
Target product name PACE Suite Review the instructions to create a patc	h package successfully					

• Update **Display name** and **Description** of the Patch package and select the necessary properties. Click **Create** to create the Patch (MSP) package.

				_		×
	~ —					
	Type of update	Patch properties	Creating patch			
Patch properties						
Display name						
PACE Suite 5.0.0.4 Patch						
Description						
Patch desription						
Changed files are to be included patch files will be bigger in size b	in their entirety whe ut the API runs faste	en creating the pat er.	ch package instead of cr	eating a binary fil	e patch.	The

• Wait a little, while the Patch package is creating.

Create a Patch Package						\times
	⊘ Type of update	⊘ Patch properties	Creating patch			
Creating patch						
	Creating patch					
				I		
			< Back	Finish	Cance	

٥

• Enter a name of the Patch package, choose its destination location and click Save.

🔘 Save As						×
$\leftrightarrow \rightarrow \cdot \uparrow$	> This PC > Desktop		ٽ ~	Search Desktop		٩
Organize 🔻 Ne	ew folder					?
🔹 Quick access	^ Name ^		Date modified	Туре	Size	
Desktop	*	No item	s match your search.			
👆 Downloads	*					
Documents	*					
Pictures	*					
OneDrive						
💻 This PC						
💣 Network						
•4 Homegroup	~					
File <u>n</u> ame:	PACE_v5.0.0 5.0.0.4 patch.msp					~
Save as <u>t</u> ype:	Windows Installer Patch (*.msp)					~
∧ Hide Folders				<u>S</u> ave	Cancel	



•

Create a Patch Package					- 0 X
	⊘ —	Patch	Creating		
	update	properties	patch		
Creating patch					
Patch Package was created successfu	ully.				
			/ Back	Finish	Capital
			S Dack	Finish	Cancel



3.4 Create MSIX/APPX



NOTE Building Universal Windows Platform app packages (MSIX, APPX) is available on Windows 10 or Windows Server 2016 or newer.

NOTE Before packaging you app to MSIX/APPX, review UWP application limitations.

Choose a scenario that better suits your needs:

- Create MSIX/APPX from Scratch, described in section 3.4.1 Create a blank project in MSI Generator, add files, registry, select package settings and build MSIX/APPX package.
- Repackage Installation to MSIX/APPX, described in section 3.4.2
 Repackage your source installation (EXE, MSI, VBS, CMD, etc.) into MSIX/APPX package using MSI Generator.

3.4.1 Create MSIX/APPX from Scratch

Create a blank project in MSI Generator, add files, registry, select package settings and build MSIX/APPX package.

• Launch MSI Generator from the desktop of the start menu shortcut.



• If you have the User Account Control enabled, click Yes to launch the application.





• Click Create blank project.



• Enter a project name and click Create.

Blank project			×
Project name			
MyPackage			
	Create	Cancel	

- For managing project resources such as files, folders, and registry refer to the respective section of this document:
 - o Regarding File and Folders see section 3.8.2
 - o Regarding Registry see section 3.8.3
- For managing MSIX/APPX Settings such as display and identity properties, apps and their visual assets, capabilities, signature, dependencies, bundle, AppInstaller, see section 3.8.7



 Finally, to generate an MSIX/APPX package navigate to the Package -> UWP tab and click Build UWP.

Edit package - PKG-190430-144511.mgp										-		×
≡ MENU Package Files Shorto	uts\Apps Registry	System resources										
	MSI	MST	UWP	APPV		THINAP	P					
Display properties			UW	P packag	je op	ptions						
Package logo (50x50)			Packag	je format								
Browse			MSIX									~
Display name	Publisher display name		C:\Pr	ogram Files (:	*r x86)\N	/lozilla Fir	efox					~
Firefox	Mozilla			errupt buildir	a the	package	for manual ed	diting the manif	est			
Description			Projec	t folder	<u> </u>			5				
			C:\U	sers\pace\Do	cumer	nts\MSI (Generator\Pac	kages\PKG-1	Browse		Go to	
Capabilities	Signature		Pac	kade idei	ntitv	,						
Declare access to the protected user resources.	Sign the generated pack	age/bundle.	Name	2				Publisher				
Edit capabilities	Edit signature		Moz	illaFirefox				CN=Mozilla				
Dependencies	Architectures &	Bundle	Versio	n								
Specify package type (main/modification) and	Set the compatible proce	essor architectures and	63.0 d	.3.0								
supported platforms.	bundle options.		-	BUILD LOG							Open lo	g
Edit dependencies	Edit architectures		Type	Elapse	a	Step	p					
App Installer												
Generate the App Installer file to distribute and												
update your application with a single click.												
Edit appinstaller			Elapse 00:00	d time			Review the l	UWP application li	mitations	ψB	uild UW	'P

• Once the package is built, click Go to..., located next to the Project folder field, to open the MSIX/APPX project folder in Windows Explorer. Find your package in the "Output" subfolder.

Edit package - PKG-190430-144511.mgp			- 🗆 ×
≡ MENU Package Files Shorto	cuts\Apps Registry System resources		
	MSI MST	UWP APPV THINAPP	
Display properties		UWP package options	
Package logo (50x50)		Package format	
		MSIX	~
Browse		Application root folder	
Display name	Publisher display name	C:\Program Files (x86)\Mozilla Firefox	~
Firefox	Mozilla	Interrupt building the package for manual editing the manife	-st
Description		Proiect folder	
Mozilla Firefox		C:\Users\pace\Documents\MSI Generator\Packages\PKG-1	Browse Go to
Capabilities Declare access to the protected user resources.	Signature 5. Sign the generated package/bundle.	Package identity	
Edit capabilities	Edit signature	Name Publisher	
Edit capabilities	Loncongristione		
Dependencies	Architectures & Bundle	Version 63.0.3.0	
Specify package type (main/modification) and supported platforms.	Set the compatible processor architectures and bundle options.	BUILD LOG	Open log
		Type Elapsed Step	A
Edit dependencies	Edit architectures	00:00:21 Operation was completed successfully	
App Installer		00:00:01 Creating C:\Users\pace\Documents\MSI	Generator\Packages\PKG-190430
Appinistaller		00:00:01 Generating manifest Manifest_neutral.xn	ni
Generate the App Installer file to distribute and	1	00:00:00 Processing files	
Edit appinstaller		Elapsed time 00:00:22 Review the UWP application lin	nitations 😚 Build UWP

• To install the generated UWP package, (1) enable the <u>Developer Mode or Sideloading apps</u> on the target system and (2) ensure that the certificate, used for signing, is trusted on that system. If you are using the self signed certificate, install it manually to the Trusted People or Trusted Publishers local machine certificate store. By adding a certificate to local machine certificate stores, you affect the certificate trust of all users on the computer. It is recommended that you remove those certificates when they are no longer necessary to prevent them from being used to compromise system trust.

3.4.2 Repackage Installation to MSIX/APPX

Repackage your source installation (EXE, MSI, VBS, CMD, etc.) into MSIX/APPX package using MSI Generator.

• Launch MSI Generator from the desktop of the start menu shortcut.



• If you have the User Account Control enabled, click Yes to launch the application.





Click Capture installation. •



Review the issues, which were detected on your system, and try to resolve them by closing the • non-essential applications and stopping services. Thereafter, click Next >

Ca	apture installation								×
		Prepare computer	Capturing method	Settings	Installation	Completion			
۲e	pare the cor	nputer for	capturing						
is s /oid rtu	strongly recommen d capturing data, w al machine to the p ollwing issues were de	ded to perform hich is not relate previous state. tected on your sys	capturing on a cle ed to your source tem:	ean virtual mach installation. Also	ine with all non-e b, in case of any fa	ssential processes ilure, you will be a	stopped ble to res	in orde tore th	er to Ie
Des	cription		Resolution						
0	Diagnostic Policy Sen	vice is active.	Stop this servi	ice before capturing] .				
0	Windows Defender A	ntivirus Service is a	ctive. Stop this servi	ice before capturing	g.				
0	Security Center is acti	ve.	Stop this servi	ice before capturing	g.				
0	Windows Search is ac	tive.	Stop this servi	ice before capturing) .				
0	Windows Defender is	running.	Close your an	tivirus software bef	ore capturing.				
	Refresh					Review the captu	ring recom	mendat	ions
					< Back	Next >		Cance	

• Select the Monitoring method for the quicker capturing (or use the Snapshotting one if you need to continue capturing after the system restart) and click Next >.

Capture installation	·							×
								
	Prepare computer	Capturing method	Settings	Installation	Completion			
Select a captu	iring method	ł						
Monite This m	oring (quick) nethod watches the	e installation and I	records system c	hanges to a packa	age.			
O Snapsl This m differe	hotting (configural nethod creates two nce between snap	ble) 9 system snapshot 9shots. Use this op	s (before and aft otion if your sour	er the installation) ce installation requ	and builds a pack uires the system re	age, bas start.	sed on	
				< Back	Next >		Cancel	
					L			



• Review and update package name. If needed, disable unnecessary exlusion filters and scanning areas. Click Next > to start the capturing.

Capture installation			I	<u> </u>		_		×
Settings Package name	Prepare computer	Capturing method	Settings	Installation	Completion			
PKG-170912-154800								
Exclusion filters Apply the following f AllWindowsOS Win7 Win7 Win8-10	filters to the capt	ured resources:	Scannin Appli	g areas cation objects: Permissions Services Printers				
				< Back	Next >		Cancel	

• Click Select and run... to choose source installation for repackaging.

Capture insta	llation								\times
					_				
	Pr	repare mputer	Capturing method	Settings	Installation	Completion			
Install you	ur applica	itions no	w						
Now is the tim the "Select and	e to run instal d run" functio	llers of the a onality.	applications, whic	h you want to ca	apture. You can ru	n installers either n	nanually	or using	9
Select and	d run								
Detected MSI Ins	tallation								
Note that it is capturing and	not recommer switch to cust	nded to rep tomizing the	ackage MSI to M em via a transforr	SI. If you have in n in Editor.	stantly detected a	and copied MSI ins	tallation	s, cancel	
Once the insta	llation is comp led the installa	pleted, seleo ation	t "I have finished	I the installation"	and click "Next".				
					< Back	Next >		Cancel	

• Select the installer file (e.g. Firefox Setup.exe) and click Open.

Open						×
	> Thi	s PC > Downloads		✓ Ö Search	Downloads	P
Organize 🔻 Ne	ew folde	r				?
🕹 Quick access		Name	Date modified	Туре	Size	
Desktop	*	🚔 Firefox Setup.exe	9/13/2017 4:24 PM	Application	33,209 KB	
Downloads	*					
Pictures	*					
i OneDrive						
💻 This PC						
💣 Network						
•� Homegroup						
	File <u>n</u> a	me: Firefox Setup.exe		 ✓ Installe 	r files (*.*)	~
				Q	Den Cance	el

Follow the installation dialogs of the launched source installation to complete it.



• Now you can make any additional changes to the file system and registry, which you want to capture along with source installation and include to the package. For instance, you can copy or edit configuration files, import REG file to the system registry, change file, folder permissions, or launch the installed application in order to capture the necessary application configurations, like disabling updates and so on.



• Finally, to complete the capturing, select I have finished the installation and click Next >

Capture install	lation						_		×
		~							
	C	Prepare omputer	Capturing method	Settings	Installation	Completion			
Install you	r applic	ations no	WC						
Now is the time the "Select and	e to run inst run" funct	allers of the a tionality.	applications, whic	h you want to ca	apture. You can ru	n installers either r	nanually	or using	9
Select and	run								
Detected MSI Inst	allation								
State	Copied	Name							
Note that it is n capturing and s Once the instal	ot recomm switch to cu	ended to rep stomizing the npleted, selec	oackage MSI to M em via a transforr ct "I have finishec	SI. If you have in m in Editor. I the installation"	stantly detected a and click "Next".	and copied MSI ins	tallation	s, cancel	
I nave finishe	ea the Instal	liation							
					< Back	Next >		Cancel	

• Wait a little, while the capturing process is finishing, filtering captured data and creating the project.

Capture ins	tallation						—		Х
									
		Prepare computer	Capturing method	Settings	Installation	Completion			
nstall yo	our applie	cations n	ow						
ow is the ti e "Select ar	me to run ins nd run" func	stallers of the a	applications, whic	h you want to c	apture. You can ru	n installers either	manually	/ or usin	9
Select a	nd run								
tected MSL									
Concerned in the li	nstallation								
tate	Copied	Name							
ote that it is pturing an nce the ins I have finis	s not recomn d switch to cu tallation is co	Name nended to rep ustomizing the ompleted, sele allation	backage MSI to M em via a transforr ct "I have finishec	ISI. If you have ir m in Editor. d the installation'	istantly detected a and click "Next".	and copied MSI in:	stallation	s, cance	1
lote that it it apturing an Ince the ins I I have finis	s not recomn d switch to cu tallation is co shed the insta	Name nended to rep ustomizing the ompleted, sele allation vices	backage MSI to M em via a transfori ct "I have finished	ISI. If you have ir m in Editor. d the installation'	and click "Next".	and copied MSI in:	stallation	s, cance	1

• Leave selected both the Customize project in editor and Copy all captured files to the project folder now options and click Finish.

Capture instal	lation							×
	~ —							
	Prepare computer	Capturing method	Settings	Installation	Completion			
Completic	on							
Important: be i functionality. Ex	nformed that some of ca clude those unnecessary	aptured files and i / resources using	registry, which d editor.	o not belong to ye	our application, ma	ay affect	: package	e
 O Customize p O Stop now ar 	project in editor ad save project							
Copy all cap	tured files to the project	folder now						
Project summary								
Project folder	r: C:\Users\pace\Docume	ents\MSI Generate	or\Packages\PKC	-170913- <mark>1</mark> 54800	(Go to)			
Files:	473 (909,7 MB)							
Registry:	451							
Services:	1							
Printers:	0							
	-							
				d De els	Einish		Cancel	
				< pack	Finish		Cancel	

• If some of captured files are locked or missing and as result they could not be copied to the project folder, they will be displayed as illustrated below. Usually, the displayed files are system noise and do not refer to the captured application. Click **Finish** to continue with skipping locked and missing files. Note that such files will be automatically marked as 'Excluded' in your



ject.		_		
Capture	nstallation		×	
	Prepare Capturing Settings Installation Completion computer method			
ompl	etion			
e followir	g files could not be copied to the project folder because they are locked or missing:			
tate	File path			
ocked	C:\Users\pace\ntuser.dat.LOG1			
ocked	C:\Users\pace\NTUSER.DAT			
lissing	C:\Users\pace\AppData\Local\Temp\b8b61adf-14ff-4926-95ef-16f3638de72f\snapshot2.xml			
ocked	C:\Users\pace\AppData\Local\Microsoft\Windows\UsrClass.dat.LOG1			
ocked	C:\Users\pace\AppData\Local\TileDataLayer\Database\EDB.log			
ocked	C:\Windows\System32\config\SOFTWARE.LOG1			
Retry	,			
/ to rest pying la	ore missing and unlock locked files and then click "Retry". Click "Finish" to proceed creating the project and s cked and missing files to the project folder. Note that such files will be marked as "Excluded".	kip		

- Once the project is opened in the project editor, it is strongly recommended to review the Files, Shortcuts\Apps and Registry tabs and exclude the accidentally captured resources, which do not belong to the application. Such accidentally captured resources are also called system noise and it could be Windows Updates, Search indexing, Antivirus software and so on.
- In order to review the captured files and folders and exclude unnecessary ones, go to the Files tab, and select Exclude from the context menu of an item, which you want to exclude. Note



that the excluded items are highlighted in yellow and crossed out.

Edit package - PKG-19043	30-144511.mgp							-	\Box ×
≡ MENU Package	Files Shortcuts	Apps Regis	stry	System resources					
Files and folders	5					Include	ed: 124 files (197,6 MB	i) 🔨 Co	lapse all
Name					Т	ype	Size	State	
🖃 C:					F	older		Changed	
Program Files (x86)				F	older		Changed	
🕀 🖿 🔍 Mozilla	Firefox				F	older		Added	
🕀 🖿 Mozilla Ma	intenance Service				F	older		Added	
ProgramData					F	older		Changed	
 Microsoft 					F	older		Changed	
Users					F	older		Changed	
🕀 🔄 pace					F	older		Changed	
🕀 🛄 Public					F	older		Changed	
Windows					F	older		Changed	
🗄 🛄 appcompa					Ŧ	older		Changed	
Prefetch					ŧ	older		Changed	
 System32 					 F	older		Changed	
🖃 🚞 config	Import files				F	older		Changed	
DE	New subfolder	_			l	.OG2	202,0 KB	Changed	
SO 📄	Properties	F2			l	.0G1	16,0 MB	Changed	
SY:	Move to folder	12			l	.0G1	1004,0 KB	Changed	
🖃 🚞 SleepS	Nove to loider	D.I.			F	older		Changed	
Us	Exclude	Dei			E	ETL	320,0 KB	Changed	
🖃 🔛 winevt	Add to exclusion filter	•			F	older		Changed	
E Lo	Delete	Shift+Del			F	older		Changed	
🗄 🔄 Temp	APPV virtualization lev	el 🔸			ŧ	older		Changed	
Add • Evo	lude								
Add EAC									

 To review the captured MSIX/APPX apps and exclude unnecessary ones, go to the Shortcuts\Apps -> UWP tab, and select Exclude from the context menu of an item, which you want to exclude.

Edit package -	PKG-190430-144511.mgp							- 🗆 ×
	Package Files	Shortcuts\Apps	Registry Sys	stem resources				
Application Firefox Ex De	ew application clude Del elete Shift+D	Del		MSI UWP Application Display name Firefox Description Firefox Executable C:\Program Files (x8 Visual assets Background color Transparent Short name App list logo (44x44) Transparent Browse Show name on Firefox	APPV 6)\Mozilla Firefox\firefo Small logo (71x71) <pre></pre>	DX.eXe Medium logo (150x150) Browse	Wide logo (310x150) Image: Second	Pick color Large logo (310x310) cno logo> Browse
Add	Exclude			Li Mealum logo	u vvide iogo u l	Large logo		



 To review the captured registry keys and values and exclude unnecessary ones, go to the Registry tab, and select Exclude from the context menu of an item, which you want to exclude.
 Edit package - PKG-190430-144511.mgp

MENU	Package	Files Shortcuts\App	s Registry	System resources			
Registry							Included: 113 values 💙 Collapse al
Name					Туре	Value	State
HKEY	_CLASSES_ROOT				System hive		
HKEY	_CURRENT_USER				System hive		
🖃 🔚 Se	oftware				Key		Changed
•	Classes				Key		Changed
•	Microsoft				Key		Changed
6	AuthCookies				Key		Changed
	🗉 🔛 Live	Import registry			Key		Changed
G	🗉 📗 IdentityCRL	Export registry			Key		Changed
	🕀 📄 Immersiv	New key			Key		Changed
9	Windows	New value			Key		Changed
HKEY	LOCAL_MACHINE	New value			System hive		
🖃 🛄 S0	OFTWARE	Properties	F2		Key		Changed
Œ	Classes	Move to			Key		Changed
	Clients	Exclude	Del		Key		Changed
Ŧ	Microsoft	Add to exclusion filter	•		Key		Changed
	Mozilla	Delete	Shift+Del		Key		Added
•	Policies				Key		Changed
÷	RegisteredApplic	APPV virtualization lev	vel 🕨		Key		Changed
÷	WOW6432Node				Key		Changed
= Sj	ystem				Key		Changed
-	CurrentControlSe	t			Key		Changed
G	Services				Key		Changed
	MozillaM	aintenance			Key		Added
	Line SharedAd	cess			Key		Changed
	_USERS				System hive		

- For managing MSIX/APPX Settings such as display and identity properties, apps and their visual assets, capabilities, signature, dependencies, bundle, AppInstaller, see section 3.8.7
- Finally, to generate an MSIX/APPX package navigate to the Package -> UWP tab and click Build UWP.

Edit package - PKG-190430-144511.mgp										-		×
≡ MENU Package Files Shorte	cuts\Apps Registry	System resource	s									
	MSI	MST	UWP	AF	PV	THINAP	P					
Display properties			U١	VP pag	ckage	options						
Package logo (50x50)			Pack	age format	t							
Browco			MS	IX								~
Diowse	Dublisher display appe		App	lication roo	t folder							
Firefox	Mozilla		C:\	Program I	Files (x86	i)\Mozilla Fire	efox					~
Description	WOZING			nterrupt b	building t	he package	for manual edit	ting the mani	fest			
Mozilla Firefox			Proj	ect folder								
			C:	\Users\pa	ce\Docu	ments\MSI G	Generator\Packa	ages\PKG-1	Browse		Go to	
Capabilities	Signature		Pa	ckade	identi	ity						
Declare access to the protected user resources.	Sign the generated pack	age/bundle.		скаде	luciiu	ity						
Edit capabilities	Edit signatura		: Nan	ne Han Einafi				Publisher				
Luit capabilities	Loit signature		IVI		x			CIN=IVIOZIIIa				
Dependencies	Architectures &	Bundle	Vers 63	10n								
Specify package type (main/modification) and	Set the compatible proce	essor architectures ar	nd	.0.5.0								
supported platforms.	bundle options.			BUILD L	.OG					(Jpen lo	9
Edit dependencies	Edit architectures		Ту	pe	Elapsed	Step)					
App Installer												
Generate the App Installer file to distribute and update your application with a single click.												
Edit appinstaller			Elap 00:0	osed time 10			Review the UV	WP application I	limitations	🗳 Bu	iild UW	Р



 Once the package is built, click Go to..., located next to the Project folder field, to open the MSIX/APPX project folder in Windows Explorer. Find your package in the "Output" subfolder.
 Edit package - PKG-190430-144511.mgp

≡ MENU Package Files Shortco	uts\Apps Registry System resources						
	MSI MST U	WP	APPV	THINAPP			
Display properties		UWP	oackage	options			
ackage logo (50x50)		Package fo	rmat				
`		MSIX					
Browse		Application	n root folder				
lisplay name	Publisher display name	C:\Progr	am Files (x86)	\Mozilla Firefox			
Firefox	Mozilla	Interru	unt huilding th	a package for manual	oditing the manif	ost	
lescription		Designet fol	ipt building ti	ie package for manuali	earing the mann	est	
Mozilla Firefox		C:\Llsor	her	nonts\MSI Concrator\Pa	ckagas) PKG 1	Browso	Golto
Declare access to the protected user resources. Edit capabilities Dependencies	Sign the generated package/bundle. Edit signature Architectures & Bundle	Name MozillaF Version 63.0.3.0	ge identii	ty	Publisher CN=Mozilla		
pecify package type (main/modification) and	Set the compatible processor architectures and bundle options	BUI	LD LOG				Open lo
		Туре	Elapsed	Step			
Edit dependencies	Edit architectures		00:00:21	Operation was con	npleted successfully		
an Installer			00:00:01	Creating C:\Users\	pace\Documents\MS	Generator\Packag	jes\PKG-190430
			00:00:01	Generating manife	st Manifest_neutral.x	mi	
enerate the App Installer file to distribute and pdate your application with a single click.			00:00:00	Processing files			
Edit appinstaller		Elapsed tii 00:00:22	me	Review the	e UWP application li	mitations	🖞 Build UW

• To install the generated UWP package, (1) enable the <u>Developer Mode or Sideloading apps</u> on the target system and (2) ensure that the certificate, used for signing, is trusted on that system. If you are using the self signed certificate, install it manually to the Trusted People or Trusted Publishers local machine certificate store. By adding a certificate to local machine certificate stores, you affect the certificate trust of all users on the computer. It is recommended that you remove those certificates when they are no longer necessary to prevent them from being used to compromise system trust.



×

3.5 Create APPV

Choose a scenario that better suits your needs:

- Create APPV from Scratch, described in section 3.5.1 Create a new empty project in MSI Generator, add folders, files, registry entries and APPV apps, shortcuts and FTAs to this project and then generate the APPV 5.0/5.1/1607 (5.2) package from this project.
- Repackage Installation to APPV, described in section 3.5.2 Repackage your source installation (EXE, MSI, VBS, CMD, etc.) into APPV 5.0/5.1/1607 (5.2) package using MSI Generator.

3.5.1 Create APPV from Scratch

Create a new empty project in MSI Generator, add folders, files, registry entries and APPV apps, shortcuts and FTAs to this project and then generate the APPV 5.0/5.1/1607 (5.2) package from this project.

• Launch MSI Generator from the desktop of the start menu shortcut.



• If you have the User Account Control enabled, click Yes to launch the application.





• Click Create blank project.



Enter a project name and click Create.

© Blank project			×
Project name			
MyPackage			
	Create	Cancel	

- For managing project resources such as files, folders, and registry refer to the respective section of this document:
 - o Regarding File and Folders see section 3.8.2
 - o Regarding Registry see section 3.8.3
- For managing APPV Settings such as application details, target OS, PVAD, streamin settings, APPV version, virtualization level for the folders and registry keys, APPV apps, their shortcuts and file type associations (FTA), see section 3.8.8



 Finally, to generate an APPV package navigate to the Package -> APPV tab and click Build APPV.

© Edit package - PKG-190430-14451	1.mgp						-	_		×
≡ MENU Package Fil	es Shortcuts\Apps	Registry	System resources							
		MSI	MST	UWP	APPV	THINAPP				
Application Details				App-	V Packag	e Options				
Application name				App-V v	ersion					
Firefox				App-V	5.2 (1607) pag	kage format version				~
Version				Package	name					
63.0.3				PKG-1	90430-144511					
Publisher				Package	folder					
Mozilla				C:\Use	ers\pace\Docu	ments\MSI Generator\Packages\PKG-1	Browse	G	60 to	
App-V Settings				Descript	ion					
Primary virtual application directory (P	PVAD)									
Do not use PVAD (default)			~	, BI				O	pen loo	a
Streaming options				Type	Elapsed	Step		-		
Force application to be fully defined as a second sec	ownloaded before launch	ing.								
Target OS										
 Allow this package to be run of O Allow this package to be run of 	on any operating system only on the selected opera	ating systems								
Select OS										
Advanced options										
Allow all named objects to inte	eract with the local system	n								
Allow all COM objects to inter	act with the local system	tural film anotaria								
Anow virtual application full with the second	rite permissions to the viri	tuai file system								
	2			Elapsed 00:00	time		ů) Build	d APP	V

• Once the package is built, click **Go to**..., located next to the **Project folder** field, to open the <u>APPV project folder in Windows Explorer</u>. Find your package in the opened folder.

Edit package	e - PKG-190430-	144511.mgp										-		\times
≡ menu	Package	Files	Shortcuts\Apps	Registry	System resources	5								
				MSI	MST	UWP	_	APPV	THINAPP					
Applicati	on Detail	S					App-V	Package	e Options					
Application nam	ne						App-V versi	on						
Firefox							App-V 5.2	(1607) pack	kage format version					~
Version							Package nar	ne						
63.0.3							PKG-1904	30-144511						
Publisher							Package fol	ier						
Mozilla							C:\Users\	pace\Docur	ments\MSI Generator\Packa	ages\PKG-1	Browse		Go to	
							Description							
App-V Se	ettings						Description							
Primary virtual a	application direc	tory (PVAD)												
Do not use P	VAD (default)					× .	BUIL	DIOG				(Dpen la	pq
Streaming optio	ons						Type	Flapsed	Step				1	
Force appl	ication to be f	ully downlo	aded before launchin	g.				00:00:30	Operation was comple	ted successfully				
Target OS				-			1	00:00:06	Saving package					
 Allow this p 	backage to be	run on any	operating system				- E.	00:00:06	Processing software cli	ients				
 Allow this p 	package to be	run only o	n the selected operati	ng systems				00:00:06	Processing environment	nt variables				
Select O	S							00:00:06	Processing URL protoc	ols				
A durant and a stin							- 1-	00:00:05	Processing application	capabilities				
Advanced optio	ns						- 11	00:00:05	Processing FIAs Processing browser plu	uning				-
Allow all na	amed objects	to interact i	with the local system				10	00:00:05	Processing COM object	ts				
LI Allow all C	OM objects to	interact wi	th the local system				- i-	00:00:05	Processing services					
☐ Allow virtu	al application	full write pe	ermissions to the virtu	al file system			- 1 - C	00:00:05	Processing registry					-
∐ Enable Bro	wser Helper (Dbjects					Elapsed tim 00:00:30	e				🐡 Bu	ild APF	PV



3.5.2 Repackage Installation to APPV

Repackage your source installation (EXE, MSI, VBS, CMD, etc.) into APPV 5.0/5.1/1607 (5.2) package using MSI Generator.

• Launch MSI Generator from the desktop of the start menu shortcut.



• If you have the User Account Control enabled, click Yes to launch the application.

User Account Control	×
Do you want to allow this app to make changes to your device?	
😥 MSI Generator	
Verified publisher: Infopulse Ukraine LLC File origin: Hard drive on this computer	
Show more details	
Yes No	



Click Capture installation. •



Review the issues, which were detected on your system, and try to resolve them by closing the • non-essential applications and stopping services. Thereafter, click Next >

Ca	apture installation						_		×
		Prepare computer	Capturing method	Settings	Installation	Completion			
re	pare the cor	nputer for	capturing						
is : voi irtu	strongly recommen d capturing data, w al machine to the p ollwing issues were de	ded to perform hich is not relate previous state. tected on your sys	capturing on a cl ed to your source tem:	ean virtual mach installation. Also	nine with all non-e o, in case of any fa	essential processe bilure, you will be	s stopped able to n	d in orde estore th	er to Ie
Des	cription		Resolution						
0	Diagnostic Policy Serv	vice is active.	Stop this serv	ice before capturin	g.				
õ	Windows Defender A	ntivirus Service is a	ctive. Stop this serv	ice before capturin	g.				
0	Security Center is acti	ive.	Stop this serv	ice before capturin	g.				
0	Windows Search is ac	tive.	Stop this serv	ice before capturin	g.				
0	Windows Defender is	running.	Close your an	tivirus software bef	ore capturing.				
	Refresh					Review the capt	turing reco	mmenda	tions
					< Back	Next >		Cance	

• Select the Monitoring method for the quicker capturing (or use the Snapshotting one if you need to continue capturing after the system restart) and click Next >.

© Capture in	stallation								×
									
		Prepare computer	Capturing method	Settings	Installation	Completion			
Select a	capturi	ng method							
	Monitorir This mether	ng (quick) nod watches the	installation and r	records system ch	anges to a packa	ge.			
	 Snapshot This mether difference 	ting (configurab nod creates two e between snaps	le) system snapshot hots. Use this op	s (before and afte tion if your source	er the installation) e installation requ	and builds a pack iires the system re	age, bas start.	sed on	
					< Back	Next >		Cancel	
						~			



• Review and update package name. If needed, disable unnecessary exlusion filters and scanning areas. Click Next > to start the capturing.

Capture installation			I	<u> </u>		_		×
Settings Package name	Prepare computer	Capturing method	Settings	Installation	Completion			
PKG-170912-154800								
Exclusion filters Apply the following f AllWindowsOS Win7 Win8-10	filters to the capt	ured resources:	Scannin Appli	g areas cation objects: Permissions Services Printers				
				< Back	Next >		Cancel	

• Click Select and run... to choose source installation for repackaging.

Capture insta	llation								\times
					_				
	Pr	repare mputer	Capturing method	Settings	Installation	Completion			
Install you	ur applica	itions no	w						
Now is the tim the "Select and	e to run instal d run" functio	llers of the a onality.	applications, whic	h you want to ca	apture. You can ru	n installers either n	nanually	or using	9
Select and	d run								
Detected MSI Ins	tallation								
Note that it is capturing and	not recommer switch to cust	nded to rep tomizing the	ackage MSI to M em via a transforr	SI. If you have in n in Editor.	stantly detected a	and copied MSI inst	tallation	s, cancel	
Once the insta	llation is comp led the installa	pleted, seleo ation	t "I have finished	I the installation"	and click "Next".				
					< Back	Next >		Cancel	

- Select the installer file (e.g. Firefox Setup.exe) and click Open. • Open Х ← → ✓ ↑ ↓ > This PC > Downloads ✓ ^で Search Downloads Q Organize 🔻 -----New folder 2 Name Date modified Туре Size 📌 Quick access 🔮 Firefox Setup.exe 9/13/2017 4:24 PM Application 33,209 KB 📃 Desktop Downloads * Documents Pictures a OneDrive This PC Network • Homearoup File name: Firefox Setup.exe Installer files (*.*) \sim \sim <u>O</u>pen Cancel
- Follow the installation dialogs of the launched source installation to complete it.

Welcome	e to the Mozilla Firefox	
📸 Mozilla Firefox Setup	_	×
Setup Type		
Choose set 🔂 Mozilla Firefox Set	tup	- 🗆 X
Choose the Ready to start insta	alling Firefox	
	ozilla Firefox Setup	- · ×
Firefox Firefox will I Ple	anng ase wait while Mozilla Firefox is being installed.	
C:\Program	📸 Mozilla Firefox Setup	- 🗆 ×
		Completing the Mozilla Firefox Setup Wizard
		Mozilla Firefox has been installed on your computer.
		Click Finish to close this wizard.
Click Install		Launch Firefox now
		< <u>B</u> ack Finish Cancel

• Now you can make any additional changes to the file system and registry, which you want to capture along with source installation and include to the package. For instance, you can copy or edit configuration files, import REG file to the system registry, change file, folder permissions, or launch the installed application in order to capture the necessary application configurations, like disabling updates and so on.



• Finally, to complete the capturing, select I have finished the installation and click Next >

Capture instal	lation						_		×
		~							
	C	Prepare omputer	Capturing method	Settings	Installation	Completion			
Install you	r applic	ations no	WC						
Now is the time the "Select and	e to run inst run" funct	allers of the a tionality.	applications, whic	h you want to ca	apture. You can ru	n installers either r	nanually	or using	9
Select and	run								
Detected MSI Inst	allation								
State	Copied	Name							
Note that it is n capturing and s Once the instal	ot recomme switch to cu	ended to rep stomizing the npleted, sele	oackage MSI to M em via a transforr ct "I have finishec	SI. If you have in m in Editor. I the installation"	stantly detected a and click "Next".	and copied MSI ins	tallation	s, cancel	
l⊻l I have finishe	ed the instal	llation							
					< Back	Next >		Cancel	

• Wait a little, while the capturing process is finishing, filtering captured data and creating the project.

Capture ins	tallation								×
		~			_				
		Prepare computer	Capturing method	Settings	Installation	Completion			
nstall yo	our appli	cations n	ow						
low is the ti ne "Select ar	me to run ins nd run" fund	stallers of the a ctionality.	applications, whic	ch you want to ca	apture. You can ru	n installers either i	manually	or using	g
Select a	nd run]							
etected MSLI									
cecece man	Installation								
State	Copied	Name							
lote that it i apturing an Ince the ins	s not recomm d switch to c tallation is co	Name mended to rep ustomizing the ompleted, sele callation	backage MSI to M em via a transforr ect "I have finished	ISI. If you have ir m in Editor. d the installation'	istantly detected a and click "Next".	and copied MSI ins	stallation	s, cancel	1
State Jote that it i apturing an Once the ins I have fini: () 00:08	s not recomm d switch to c tallation is cc shed the inst Scanning Ser	Name mended to rep sustomizing the completed, sele callation	backage MSI to M em via a transforr ect "I have finished	ISI. If you have ir m in Editor. d the installation'	istantly detected a and click "Next".	and copied MSI ins	stallation	s, cancel	
• Leave selected both the Customize project in editor and Copy all captured files to the project folder now options and click Finish.

© Capture instal	llation					_		×
	~ —							
	Prepare computer	Capturing method	Settings	Installation	Completion			
Completio	on							
Important: be i functionality. Ex	informed that some of ca clude those unnecessar	aptured files and y resources using	registry, which d editor.	o not belong to ye	our application, m	ay affect	: packag	e
● Customize p ○ Stop now ar	project in editor nd save project							
✓ Copy all cap	otured files to the project	folder now						
Project summary								
Project folder	r: C:\Users\pace\Docume	ents\MSI Generat	or\Packages\PK(5-170913-154800	(Go to)			
Files:	473 (909,7 MB)							
Registry:	451							
Services:	1							
Printers:	0							

• If some of captured files are locked or missing and as result they could not be copied to the project folder, they will be displayed as illustrated below. Usually, the displayed files are system noise and do not refer to the captured application. Click **Finish** to continue with skipping locked and missing files. Note that such files will be automatically marked as 'Excluded' in your



oject.		
Capture	installation — 🗆 >	×
	Prepare Capturing Settings Installation Completion computer method	
ompl	etion	
e followi	ng files could not be copied to the project folder because they are locked or missing:	
tate	File path	
ocked	C:\Users\pace\ntuser.dat.LOG1	
ocked	C:\Users\pace\NTUSER.DAT	
lissing	C:\Users\pace\AppData\Local\Temp\b8b61adf-14ff-4926-95ef-16f3638de72f\snapshot2.xml	
ocked	C:\Users\pace\AppData\Local\Microsoft\Windows\UsrClass.dat.LOG1	
ocked	C:\Users\pace\AppData\Local\TileDataLayer\Database\EDB.log	
ocked	C:\Windows\System32\config\SOFTWARE.LOG1	
Retr	4	
y to rest pying lo	ore missing and unlock locked files and then click "Retry". Click "Finish" to proceed creating the project and skip ocked and missing files to the project folder. Note that such files will be marked as "Excluded".	

- Once the project is opened in the project editor, it is strongly recommended to review the Files, Shortcuts\Apps and Registry tabs and exclude the accidentally captured resources, which do not belong to the application. Such accidentally captured resources are also called system noise and it could be Windows Updates, Search indexing, Antivirus software and so on.
- In order to review the captured files and folders and exclude unnecessary ones, go to the Files tab, and select Exclude from the context menu of an item, which you want to exclude. Note



that the excluded items are highlighted in yellow and crossed out.

© Edit package - PKG-19043	0-144511.mgp							-		×
≡ MENU Package	Files Shortcuts\	Apps Regis	stry S	ystem resources						
Files and folders						Include	d: 124 files (197,6 MB)	∇	Collapse	all
Name						Туре	Size	State		
🖃 🔤 C:						Folder		Changed		
E Program Files (x	(86)					Folder		Changed		
🕀 🔚 🔍 Mozilla f	Firefox					Folder		Added		
🗉 🔛 Mozilla Mai	ntenance Service					Folder		Added		
ProgramData						Folder		Changed		
 Microsoft 						Folder		Changed		
Users						Folder		Changed		
\pm 📄 pace						Folder		Changed		
🕀 📄 Public						Folder		Changed		
Windows						Folder		Changed		
appcompat						Folder		Changed		
Prefetch						Folder		Changed		
System32					 	Folder		Changed		
🖃 🔛 config	Import files					Folder		Changed		
DE	New subfolder					LOG2	202,0 KB	Changed		
SO 📄	Proportion	E2				LOG1	16,0 MB	Changed		
SY:	Properties Maus to folder	F2				LOG1	1004,0 KB	Changed		
🖃 🔛 SleepS	Nove to tolder	2.1				Folder		Changed		
🖹 Us	Exclude	Del				ETL	320,0 KB	Changed		
🖃 🔛 winevt	Add to exclusion filter	•				Folder		Changed		
🕀 🛄 Lo	Delete	Shift+Del				Folder		Changed		
🗉 🗋 Temp	APPV virtualization leve	el 🔸				Folder		Changed		
Add 🔺 Excl	ude									

To review the captured APPV apps, their shortcuts, file type associations (FTA) and exclude unnecessary ones, go to the Shortcuts\Apps -> APPV tab, and select Exclude from the context menu of an item, which you want to exclude.

Edit package	- PKG-190430-144511.mgp)									-		×
≡ MENU	Package Files	Shortcuts\Apps	Registry S	ystem	n resources								
				MS	5I UWP	APPV							
Application					Application								
firefox	Newserster	*i		1	Name								_
	New applica	tion			firefox								
	Exclude	Del			Version								_
	Delete	Shift+Del			63.0.3.0								
					Application path								
					C:\Program Files	(x86)\Mozilla Firef	ox\firefox.exe				B	rowse	
					Shortcuts				File Type As	sociations			
					Name	Folder			Extension	Progld			
					Firefox	C:\Users\Public\De	sktop		.html	FirefoxHTML-E7CF17	6E110C2	11B	
				* *	Firefox	C:\ProgramData\M	icrosoft\Windows\ ^c	-					
					Add	Exclude			Add	Exclude			
Add	Exclude												



 To review the captured registry keys and values and exclude unnecessary ones, go to the Registry tab, and select Exclude from the context menu of an item, which you want to exclude.

 Edit package - PKG-190430-144511.mgp
 - - - ×

≡ menu	Package	Files Shortcuts\Apps	Registry	System resources					
Registry							Included: 113 values	Collaps	e all
Name					Туре	Value		State	
HKEY	CLASSES_ROOT				System hive				
HKEY	CURRENT_USER				System hive				
🖃 🛄 So	oftware				Key			Changed	
•	Glasses				Key			Changed	
•	Microsoft				Key			Changed	
G	🛛 🔚 AuthCookies				Кеу			Changed	
	🗉 📗 Live	Import registry			Key			Changed	
E	IdentityCRL	Export registry			Key			Changed	
	🗉 📗 Immersiv	Now kov			Key			Changed	
Œ	Windows	New Key			Key			Changed	
HKEY_	LOCAL_MACHINE	New value			System hive				
🖃 🚞 SC	OFTWARE	Properties	F2		Key			Changed	
· ·	Classes	Move to			Key			Changed	
•	Clients	Exclude	Del		Key			Changed	
•	Microsoft	Add to exclusion filter	•		Key			Changed	
	Mozilla	Delete	Shift+Del		Key			Added	
•	Policies	Derete	Brint Der		Key			Changed	
	RegisteredApplic	APPV virtualization lev	el 🕨		Key			Changed	
•	WOW6432Node				Key			Changed	
🖃 🔚 Sy	/stem				Key			Changed	
=	CurrentControlSe	t			Key			Changed	
E	Services				Key			Changed	
	🕀 🖿 MozillaM	aintenance			Key			Added	
	SharedAc	Cess			Key			Changed	
	USERS				System hive				Ŧ
Add 🔺	Exclude								

- For managing APPV Settings such as application details, target OS, PVAD, streamin settings, APPV version, virtualization level for the folders and registry keys, APPV apps, their shortcuts and file type associations (FTA), see section 3.8.8
- Finally, to generate an APPV package navigate to the Package -> APPV tab and click Build APPV.

Edit package - PKG-190430-144511.mgp	-		×
≡ MENU Package Files Shortcuts\Apps Registry System resources			
MSI MST UWP APPV THINAPP			
Application Details App-V Package Options			
Application name App-V version			
Firefox App-V 5.2 (1607) package format version			~
Version Package name			
63.0.3 PKG-190430-144511			
Publisher Package folder			
Mozilla C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Browse		Go t	o
App-V Settings Description Primary virtual application directory (PVAD)			
Do not use PVAD (default)		Open	log
Streaming options Type Elapsed Step			
Force application to be fully downloaded before launching.			
Target OS • Allow this package to be run on any operating system • Allow this package to be run only on the selected operating systems • Allow this package to be run only on the selected operating systems • Select OS • Advanced options • Allow all named objects to interact with the local system • Allow all COM objects to interact with the local system • Allow virtual application full write permissions to the virtual file system • Enable Browser Helper Objects			
Elapsed time 00:00	ជុំ ខ	Build A	PPV



Once the package is built, click Go to..., located next to the Project folder field, to open the APPV project folder in Windows Explorer. Find your package in the opened folder.
 Edit package - PKG-190430-144511.mgp

© Edit package - PKG-190430-144511.mgp	- 🗆 X
≡ MENU Package Files Shortcuts\Apps Registry System resources	
MSI MSI UWP APPY IHINAPP	
Application Details App-V Package Options	
Application name App-V version	
Firefox App-V 5.2 (1607) package format version	~
Version Package name	
63.0.3 PKG-190430-144511	
Publisher Parkane folder	
Mozilla C:\Users\pace\Documents\MSI Generator\Packages\PKG-1	Browse Go to
App-V Settings Primary virtual application directory (PVAD)	
Do not use PVAD (default) BUILD LOG	Open log
Streaming options Type Elapsed Step	A
Force application to be fully downloaded before launching. Operation was completed successfully Operation was completed successfully	y
Target OS 000006 Saving package	
Allow this package to be run on any operating system Ox0006 Processing software clients Ox0007 Processing software clients Ox0007	
O Allow this package to be run only on the selected operating systems 0000000 Processing environment variables 0000006 Processing URL protocols	
Select OS 00:00:05 Processing application capabilities	
Advanced options 00:00:05 Processing FTAs	
Allow all named objects to interact with the local system	
Allow all COM objects to interact with the local system O000005 Processing COM objects	
Allow virtual application full write permissions to the virtual file system Ox00005 Processing services Ononon Processing services Ononon Processing services	
Enable Browser Helper Objects	Ψ
Elapsed time 00:00:30	🔅 Build APPV



3.6 Create THINAPP



NOTE For building THINAPP packages, ensure that your system contains VMware ThinApp (5.0.0/5.0.1/5.1.0/5.1.1/5.2.0) installed.

Choose a scenario that better suits your needs:

- Create THINAPP from Scratch, described in section 3.6.1 Create a new empty project in MSI Generator, add folders, files, registry entries, select entry points and then generate the THINAPP package from this project.
- Repackage Installation to THINAPP, described in section 3.6.2 Repackage your source installation (EXE, MSI, VBS, CMD, etc.) into THINAPP package using MSI Generator.

3.6.1 Create THINAPP from Scratch

Create a new empty project in MSI Generator, add folders, files, registry entries, select entry points and then generate the THINAPP package from this project.

• Launch MSI Generator from the desktop of the start menu shortcut.



• If you have the User Account Control enabled, click Yes to launch the application.





• Click Create blank project.



• Enter a project name and click Create.

Blank project	:		×
Project name			
MyPackage			
	Create	Cancel	

- For managing project resources such as files, folders, and registry refer to the respective section of this document:
 - o Regarding File and Folders see section 3.8.2
 - o Regarding Registry see section 3.8.3
- For managing THINAPP Settings such as entry points, primary data container, compression, file system isolation mode, sandbox location and the like, see section 3.8.9
- Finally, to generate a THINAPP package navigate to the Package -> THINAPP tab and click Build THINAPP. NOTE For building THINAPP packages, PACE Suite requires the VMware



ThinApp (5.0.0/5.0.1/5.1.0/5.1.1/5.2.0) installed and activated with the valid license.

© Edit package - PKG-190430-144511.mgp				- 🗆	×
≡ MENU Package Files Shortcuts\Apps Registry System resources	5				
MSI MST	UWP A	APPV	THINAPP		
ThinApp Settings	ThinApp	p Packa	ge Options		
Entry points	Inventory nar	me			
Name Description	 Firefox 				
Firefox.exe C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Generate	e MSI packa	ae:		
crashreporter.exe C:\Program Files (x86)\Mozilla Firefox\crashreporter.exe	Mozilla	Maintenan	ce Service.msi		
Tiretox (1).exe C:\Program Files (x86)\Mozilla Firetox\Tiretox.exe C:\Program Files (x86)\Mozilla Firefox\maintenancerenvice eve	Project locati				
maintenanceservice installer.exe C:\Program Files (x86)\Mozilla Firefox\maintenanceservice installer.exe	Cillicors	on Docum	ventry MSL Concernation Packagoon BKG 1	Browse Go to	
minidump-analyzer.exe C:\Program Files (x86)\Mozilla Firefox\minidump-analyzer.exe	C. (Osers (p	Jace (Docum	ients (MSI Generator (Fackages (FRG-1	biowse Go to.	
pingsender.exe C:\Program Files (x86)\Mozilla Firefox\pingsender.exe	Build De	etails			
plugin-container.exe C:\Program Files (x86)\Mozilla Firefox\plugin-container.exe	- Wow64-	-0			
€	AltArchit	tectureShort	cut=1		
Primary data container		tNetFromSv	stem=Win7		
Use one of the entry points					
Firefox.exe	O Only pre Proporo	pare ThinAp ThinApp pa	op package structure		
O Use separate .DAT file	© Trepare	типорр ра	ckage structure and build the package		
Firefox.dat	BUILD	LOG		Open l	og
Compression	Type	Elapsed	Step		
Compress virtual package					
File system isolation mode					
Full write access to non-system directories (Merged)					
Sandhay location					
User profile (%AppData%\Thinstall)					
O Custom location					
Browse	Elapsed time 00:00	2		🔅 Build THIN	IAPP
	1100				

• Once the package is built, click Go to..., located next to the Project location field, to open the package-containing folder in Windows Explorer. Find the generated package in the "bin" subfolder.

Edit	package	- PKG-190430-	144511.m	gp								-		\times
≡м	ENU	Package	Files	Shortcuts\Apps	Registry	System resources	;							
					MSI	MST	UWP	APPV	THINAPP					
Thir	App S	Settings					Thin	App Packa	age Options					
Entry p	points						Invento	ry name						
	Name			Description			 Fireform 	x						
✓	Firefox.e	xe		C:\Program Files (x86)\Mozill	a Firefox\firefox.e	xe	Ger	arata MSI pad	kade:					
	crashrep	orter.exe		C:\Program Files (x86)\Mozill	a Firefox\crashre	porter.exe		ozilla Maintena	ince Service msi					
	firefox (1).exe		C:\Program Files (x86)\Mozill	a Firefox\firefox.e	exe	1410	Szina ivianiteria	nice der vice.mar					
	maintena	anceservice.exe		C:\Program Files (x86)\Mozill	a Firefox\mainter	nanceservice.exe	Project	location						
	mainten	anceservice_insta	aller.exe	C:\Program Files (x86)\Mozill	a Firefox\mainter	nanceservice_installer.ex	C:\Us	ers\pace\Docu	iments\MSI Generator\Packa	ges\PKG-1	Browse		Go to	
	nindum	p-analyzer.exe		C:\Program Files (xo6)\Mozili	a Firefox\minidur	np-analyzer.exe	Duile	Dotaila						
	plugin-co	ontainer eve		C\Program Files (x86)\Mozill	a Firefox\pingser	container exe	Dulio	Details						
4	plogine	orreamenexe		ere regram mes (xee) enezin	a rinerox (pilogini-	>	Vo 🗌	w64=0						
		4 - 1					Alt/	ArchitectureSho	ortcut=1					
Primar	y data cor	itainer	oto				🗌 Loa	dDotNetFromS	System=Win7					
0 Use	e one or	the entry poi	ints					v prepare Thin	App package structure					
Fir	etox.exe	D 17 (1					O Orn O Prei	prepare ThinApp o	package structure and build t	he package				
O Use	e separat	e .DAI file							5					
Fi	refox.dat						в	UILD LOG				C) pen lo	g
Compr	ression						Туре	Elapsed	Step					-
🗆 Co	mpress \	virtual packag	e					00:00:12	SUCCESS: Firefox.exe,	size=2560k				
File svs	stem isolat	tion mode						00:00:11	Firefox.exe:					
Full w	rite acce	es to non-sve	tem dire	ctories (Merged)				00:00:11	Enterprise Edition, licen	ised to demo				
I GIL N		los lo non-aya	active of the	erence (mergee)				00:00:11	Copyright 1998-2016, V	/Mware, Inc. All r	ights reserved.			
Sandbo	ox location	1						00:00:11	VMware ThinApp Runti	me Linker Versio	n 5.2.2-4435715, B	uilt Sep	26 2016	
O Use	er profile	(%AppData%	6\Thinsta	III)				00:00:08	Adding \VMware\VMware	are ThinApp\TAS	urrogate64.exe 16	7424 b	ytes (100	Ŧ
	stom loc	auon				Browse	Elapsec 00:00:1	l time 2			ψ	Build	I THINA	APP

3.6.2 Repackage Installation to THINAPP

Repackage your source installation (EXE, MSI, VBS, CMD, etc.) into THINAPP package using MSI Generator.

• Launch MSI Generator from the desktop of the start menu shortcut.



• If you have the User Account Control enabled, click Yes to launch the application.

User Account Control	×
Do you want to allow this app to make changes to your device?	
i MSI Generator	
Verified publisher: Infopulse Ukraine LLC File origin: Hard drive on this computer	
Show more details	
Yes No	



Click Capture installation. •



Review the issues, which were detected on your system, and try to resolve them by closing the • non-essential applications and stopping services. Thereafter, click Next >

Ca	apture installation						_		×
		Prepare computer	Capturing method	Settings	Installation	Completion			
<mark>r</mark> е	epare the cor	nputer for	capturing						
is : voi irtu he f	strongly recommen d capturing data, w Ial machine to the p follwing issues were de	ded to perform hich is not relate previous state. tected on your sys	capturing on a cle ed to your source tem:	ean virtual mach installation. Also	iine with all non-e b, in case of any fa	ssential processes ilure, you will be a	stopped able to re	d in orde estore th	er to ne
Des	cription		Resolution						
0	Diagnostic Policy Sen	vice is active.	Stop this servi	ice before capturing	j .				
0	Windows Defender A	ntivirus Service is a	ctive. Stop this servi	ice before capturing	g.				
0	Security Center is act	ive.	Stop this servi	ice before capturing	g.				
0	Windows Search is ac	tive.	Stop this servi	ice before capturing	g.				
0	Windows Defender is	running.	Close your an	tivirus software bef	ore capturing.				
	Refresh					Review the captu	uring recor	mmendat	tions
					< Back	Next >		Cance	

• Select the Monitoring method for the quicker capturing (or use the Snapshotting one if you need to continue capturing after the system restart) and click Next >.

Capture installation								×
								
	Prepare computer	Capturing method	Settings	Installation	Completion			
Select a captu	iring method	ł						
Monite This m	oring (quick) nethod watches the	e installation and I	records system c	hanges to a packa	age.			
O Snapsl This m differe	hotting (configural nethod creates two nce between snap	ble) 9 system snapshot 9shots. Use this op	s (before and aft otion if your sour	er the installation) ce installation requ	and builds a pack uires the system re	age, bas start.	sed on	
				< Back	Next >		Cancel	
					L			



• Review and update package name. If needed, disable unnecessary exlusion filters and scanning areas. Click Next > to start the capturing.

Capture installation			I	<u></u>			×
	✓ Prepare computer	Capturing method	Settings	Installation	Completion		
Settings Package name							
PKG-170912-154800			Scanning	1 37835			
Apply the following f ✓ AllWindowsOS ✓ Win7 ✓ Win8-10	ilters to the capt	ured resources:	Appli	cation objects: Permissions Services Printers			
				< Back	Next >	Cancel	

• Click Select and run... to choose source installation for repackaging.

Capture ins	tallation								×
		~	~						
	C	Prepare omputer	Capturing method	Settings	Installation	Completion			
Install yo	our applic	ations n	ow						
Now is the ti the "Select a	me to run inst nd run" funct	allers of the a tionality.	applications, whic	h you want to ca	apture. You can ru	ın installers either r	manually	or usin	g
Select a	nd run								
Detected MSI I	Installation								
Note that it i capturing an	is not recomm Id switch to cu	ended to rep stomizing the	oackage MSI to M em via a transforr	ISI. If you have ir m in Editor.	stantly detected a	and copied MSI ins	tallation	s, cance	I
Once the ins	tallation is cor shed the insta	mpleted, sele Ilation	ct "I have finished	the installation"	and click "Next".				
					< Back	Next >		Cance	

- Select the installer file (e.g. Firefox Setup.exe) and click Open. • Open Х ← → ✓ ↑ ↓ > This PC > Downloads ✓ ひ Search Downloads Q Organize 🔻 -----New folder 2 Name Date modified Type Size 📌 Quick access 🔮 Firefox Setup.exe 9/13/2017 4:24 PM Application 33,209 KB 📃 Desktop Downloads * Documents Pictures a OneDrive This PC Network • Homearoup File name: Firefox Setup.exe Installer files (*.*) \sim \sim <u>O</u>pen Cancel
- Follow the installation dialogs of the launched source installation to complete it.

Welcome t	to the Mozilla Firefox	
📆 Mozilla Firefox Setup	-	×
Setup Type		
Choose set 🔂 Mozilla Firefox Setup)	- 🗆 X
Choose the Ready to start installing	g Firefox	
Standard	lla Firefox Setup	- · ×
Firefox Firefox will Please	ng wait while Mozilla Firefox is being installed.	
C:\Program	🔯 Mozilla Firefox Setup	- 🗆 ×
	ing Firefo	Completing the Mozilla Firefox Setup Wizard
	M	lozilla Firefox has been installed on your computer.
		Dick Finish to close this wizard.
Click Install		Launch Firefox now
		< <u>B</u> ack Einish Cancel

• Now you can make any additional changes to the file system and registry, which you want to capture along with source installation and include to the package. For instance, you can copy or edit configuration files, import REG file to the system registry, change file, folder permissions, or launch the installed application in order to capture the necessary application configurations, like disabling updates and so on.



• Finally, to complete the capturing, select I have finished the installation and click Next >

Capture instal	llation						_		×
		~							
	C	Prepare omputer	Capturing method	Settings	Installation	Completion			
Install you	ır applic	ations no	WC						
Now is the time the "Select and	e to run inst I run" funct	allers of the a tionality.	applications, whic	h you want to ca	apture. You can ru	n installers either n	nanually	or usin	9
Select and	l run								
Detected MSI Ins	tallation								
State	Copied	Name							
Note that it is r capturing and Once the instal	not recomm switch to cu llation is cor	ended to rep stomizing the npleted, sele	ackage MSI to M em via a transforr ct "I have finishec	ISI. If you have in m in Editor. d the installation"	stantly detected a and click "Next".	and copied MSI inst	allations	, cancel	
☑ I have finish	ed the insta	llation							
					< Back	Next >]	Cancel	

• Wait a little, while the capturing process is finishing, filtering captured data and creating the project.

Capture inst	allation								×
									
	(Prepare computer	Capturing method	Settings	Installation	Completion			
nstall yo	ur applio	cations n	ow						
Jow is the tin he "Select an	ne to run ins d run" func	tallers of the a	applications, whic	th you want to ca	apture. You can ru	n installers either	manually	/ or usin	g
Select an	id run								
etected MSI In	stallation								
State	Copied	Name							
State lote that it is apturing and)nce the inst 2 I have finis	Copied not recomm d switch to cu allation is co hed the insta	Name nended to rep ustomizing the mpleted, sele allation	backage MSI to M em via a transforr ect "I have finished	151. If you have ir m in Editor. d the installation'	istantly detected a ' and click "Next".	and copied MSI in:	stallation	s, cance	1
State Note that it is apturing and Once the inst. I I have finisi O 00:08 Si	Copied not recomm d switch to cu allation is co hed the insta canning Serv	Name nended to rep ustomizing the mpleted, sele allation vices	backage MSI to M em via a transforr act "I have finished	ISI. If you have ir m in Editor. d the installation'	istantly detected a ' and click "Next".	and copied MSI in:	stallation	s, cance	1

• Leave selected both the Customize project in editor and Copy all captured files to the project folder now options and click Finish.

© Capture instal	llation					_		×
	~ —							
	Prepare computer	Capturing method	Settings	Installation	Completion			
Completio	on							
Important: be i functionality. Ex	informed that some of ca clude those unnecessar	aptured files and y resources using	registry, which d editor.	o not belong to ye	our application, m	ay affect	: packag	e
● Customize p ○ Stop now ar	project in editor nd save project							
✓ Copy all cap	otured files to the project	folder now						
Project summary								
Project folder	r: C:\Users\pace\Docume	ents\MSI Generat	or\Packages\PK(5-170913-154800	(Go to)			
Files:	473 (909,7 MB)							
Registry:	451							
Services:	1							
Printers:	0							

• If some of captured files are locked or missing and as result they could not be copied to the project folder, they will be displayed as illustrated below. Usually, the displayed files are system noise and do not refer to the captured application. Click **Finish** to continue with skipping locked and missing files. Note that such files will be automatically marked as 'Excluded' in your



oject.		
Capture	nstallation – 🗆 🗙	
	Prepare Capturing Settings Installation Completion computer method	
ompl	etion	
e followii	g files could not be copied to the project folder because they are locked or missing:	
State	File path	
.ocked	C:\Users\pace\ntuser.dat.LOG1	
.ocked	C:\Users\pace\NTUSER.DAT	
Vissing	C:\Users\pace\AppData\Local\Temp\b8b61adf-14ff-4926-95ef-16f3638de72f\snapshot2.xml	
.ocked	C:\Users\pace\AppData\Local\Microsoft\Windows\UsrClass.dat.LOG1	
ocked	C:\Users\pace\AppData\Local\TileDataLayer\Database\EDB.log	
.ocked	C:\Windows\System32\config\SOFTWARE.LOG1	
Retr	·	
	pre missing and unlock locked files and then click "Retry". Click "Finish" to proceed creating the project and skip	
y to rest opying lo	cked and missing files to the project folder. Note that such files will be marked as "Excluded".	

- Once the project is opened in the project editor, it is strongly recommended to review the Files and Registry tabs and exclude the accidentally captured resources, which do not belong to the application. Such accidentally captured resources are also called system noise and it could be Windows Updates, Search indexing, Antivirus software and so on.
- In order to review the captured files and folders and exclude unnecessary ones, go to the Files tab, and select Exclude from the context menu of an item, which you want to exclude. Note



that the excluded items are highlighted in yellow and crossed out.

Edit package - PKG-19043	0-144511.mgp		-				_		×
≡ MENU Package	Files Shortcuts\A	pps Regis	stry	System resources					
Files and folders					Incl	uded: 124 files (197,6 N	(B)	Collapse a	all
Name					Туре	Size	State		
🖃 🔤 C:					Folder		Changed		
😑 📄 Program Files (x	(86)				Folder		Changed		
🗉 🔜 🔩 Mozilla f	Firefox				Folder		Added		
🗉 🔛 Mozilla Mai	ntenance Service				Folder		Added		
ProgramData					Folder		Changed		
 Microsoft 					Folder		Changed		
Users					Folder		Changed		
🕀 📄 pace					Folder		Changed		
🕀 🛄 Public					Folder		Changed		
Windows					Folder		Changed		
appcompat					Folder		Changed		
Prefetch					Folder		Changed		
System32					 Folder		Changed		
🖃 🔛 config	Import files				Folder		Changed		
DE	New subfolder				LOG2	202,0 KB	Changed		
SO	Proportion	E2			LOG1	16,0 MB	Changed		
SY:	Meure de felder	12			LOG1	1004,0 KB	Changed		
🖃 🔜 SleepS	Nove to Tolder				Folder		Changed		
🖹 Us	Exclude	Del			ETL	320,0 KB	Changed		
🖃 🔜 winevt	Add to exclusion filter	•			Folder		Changed		
🕀 🛄 Lo	Delete	Shift+Del			Folder		Changed		
🗄 📄 Temp	APPV virtualization leve				Folder		Changed		
Add 🔺 Excl	ude	-							

 To review the captured registry keys and values and exclude unnecessary ones, go to the Registry tab, and select Exclude from the context menu of an item, which you want to exclude.

 Etit package - PKG-190430-144511.mgp
 - - - - ×

≡ MENU Package	Files Shortcuts\App	os Registry	System resources		
Registry				Included: 113 values 💙 Collapse	e all
Name			Туре	Value State	4
HKEY_CLASSES_ROO	т		System hi	ve	
HKEY_CURRENT_USE	R		System hi	ve	
Software			Key	Changed	
🕀 🛄 Glasses			Key	Changed	
🖃 🔛 Microsoft			Key	Changed	
🖃 🔛 AuthCoo	kies		Key	Changed	
🗉 📃 Live	Import registry		Key	Changed	
🖃 🔛 IdentityC	RL Export registry		Key	Changed	
🗉 🔛 Imm	ersiv Now kov		Key	Changed	
Windows	New Key		Key	Changed	
HKEY_LOCAL_MACH	NE New value		System hi	ve	
SOFTWARE	Properties	F2	Key	Changed	
🕀 🔜 Classes	Move to		Key	Changed	
Clients	Exclude	Del	Key	Changed	
Microsoft	Add to exclusion filte	r ▶	Key	Changed	
🗉 🔛 Mozilla	Delete	Shift+Del	Key	Added	
Policies	Belete	billiter bei	Key	Changed	
RegisteredAp	oplic APPV virtualization le	vel 🕨	Key	Changed	
WOW6432N	ode		Key	Changed	
🖃 🔛 System			Key	Changed	
CurrentCont	olSet		Key	Changed	
Services			Key	Changed	
🕀 🔜 Mozi	llaMaintenance		Key	Added	_
🕀 🗋 Shan	edAccess		Key	Changed	
HKEY_USERS			System hi	ve	

- For managing THINAPP Settings such as entry points, primary data container, compression, file system isolation mode, sandbox location and the like, see section 3.8.9
- Finally, to generate a THINAPP package navigate to the Package -> THINAPP tab and click Build THINAPP. NOTE For building THINAPP packages, PACE Suite requires the VMware



ThinApp (5.0.0/5.0.1/5.1.0/5.1.1/5.2.0) installed and activated with the valid license.

Edit	package - PKG-190430	-144511.mg	9p							-		\times
≡ ме	NU Package	Files	Shortcuts\Apps	Registry	System resources							
				MSI	MST	UWP	APPV	THINAPP				
Thin	App Settings					Thin/	App Pack	age Options				
Entry po	oints					Inventor	y name					
	Name	1	Description		4	Firefox						
✓	Firefox.exe	(C:\Program Files (x86)\Mozill	la Firefox\firefox.	xe	Gen	erate MSI nac	kane:				
	crashreporter.exe	(C:\Program Files (x86)\Mozill	la Firefox\crashre	porter.exe	Mo	zilla Maintena	ince Service msi				
	firefox (1).exe	(C:\Program Files (x86)\Mozill	la Firefox\firefox.	xe	THIC .	2.ma realization					
	maintenanceservice.exe	(C:\Program Files (x86)\Mozill	la Firefox\mainte	nanceservice.exe	Project I	ocation					
	maintenanceservice_ins	taller.exe (L:\Program Files (x86)\Mozili	la Firefox\maintei	nanceservice_installer.ex	C:\Use	ers\pace\Docu	iments\MSI Generator\Packages\P	KG-1 Browse		Go to	
	nindump-analyzer.exe		C:\Program Files (x86)\Mozili	la Firefox\miniou	np-analyzer.exe	Build	Details					
	plugin-container.exe		C:\Program Files (x86)\Mozill	la Firefox\plugin-	container.exe	- Duild	Details					
4						- Wov	/64=0					
Drimary	data containor					AltA	rchitectureSho	ortcut=1				
Primary Uso	one of the entry pe	into				E Load	DotNetFrom	System=Win7				
0 0 se	one of the entry po	11115					prepare Thin	App package structure				
Fire	erox.exe					 Prep 	are ThinApp p	package structure and build the pa	ckage			
O Use	separate .DAI file								-			
Fir	efox.dat					BU	JILD LOG				Open lo	g
Compre	ession					Туре	Elapsed	Step				
🗆 Cor	npress virtual packa	ge										_
File syst	tem isolation mode											
Full w	rite access to non-sv	stem dire	ctories (Merged)									
Sandbo	x location		ID.									
O Cus	r prome (%AppData tom location	76 (I FIINSTA	u)									
	torn location				Browse	Elapsed 00:00	time		¢	🖞 Bui	Id THINA	APP

• Once the package is built, click **Go to**..., located next to the **Project location** field, to open the package-containing folder in Windows Explorer. Find the generated package in the "bin" subfolder.

Edit	package ·	PKG-190430-1	144511.m	gp							-		×
≡м	NU	Package	Files	Shortcuts\Apps	Registry	System resources	s						
					MSI	MST	UWP	APPV	THINAPP				
Thir	App S	settings					Thin	App Packa	age Options				
Entry p	oints						Invento	ry name					
	Name			Description			 Firefo 	х					
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File sv	tem isolati	on mode						00:00:11	Firefox.exe:				
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3.7 Edit MSI/MST

NOTE Adhere to the following <u>Windows Installer Best Practices</u> during editing your package.

Choose a scenario that better suits your needs:

- For managing Application Details see section 3.7.2 Manage product name, version, language and manufacturer of the application.
- For managing Package IDs see section 3.7.3 Manage product, upgrade and package codes.
- For managing Files and Folders see section 3.7.4 Review package files and folders, add new folders, import files, set permissions, register COM objects and .NET assemblies, set the INSTALLDIR folder and the like.
- For managing Shortcuts see section 3.7.5 Review package shortcuts, add new or import existing shortcuts, manage their properties.
- For managing Registry see section 3.7.6 Review package registry, add new or import from REG file registry keys and values, integrate ActiveSetup, set permissions and the like.
- For managing Custom Actions see section 3.7.7 Manage custom and standard actions of the package, add new one to run scripts, EXE, etc.
- For managing Drivers see section 3.7.8 Review the package device drivers, modify and add new ones.
- For managing Features and Components see section 3.7.9 Review the feature-component structure and resources, linked with components. Add new features, components and manage their properties.
- For managing ARP Appearance see section 3.7.10 Control how the package will be displayed in the App list (Add & Remove Programs).
- For managing Upgrades see section 3.7.11 Manage the package upgrade settings to automatically upgrade previous MSI packages.
- For managing MSI Properties see section 3.7.12 Manage package properties, defined in the Property table and those, which will be updated by the CustomAction, AppSearch, Control, ComboBox, CheckBox, RadioButton tables.
- For managing Summary Information see section 3.7.13 Manage Summary Information of the opened MSI/MST.
- For managing MSI Tables see section 3.7.14 Add, import, drop MSI tables.
- For managing Merge Modules, described in section 3.7.15 Create new MSM or importing existing MSM to the package.



3.7.1 Pre-Condition

For editing MSI/MST open the file as described below:

• Launch MSI Editor from the desktop or the start menu shortcut.



• Select Open... from the MENU.







- Choose an MSI package, which you want to modify, and click Open. • Open Х ← → ✓ ↑ 三 → This PC → Desktop ~ Ō Search Desktop Q Organize 🔻 New folder == -2 Name Date modified Туре Size 📌 Quick access PACE_v5.0.0.msi 11/29/2018 3:03 AM Windows Installer ... 51,391 KB 📃 Desktop A 🕹 Downloads * Documents * Pictures -OneDrive 💻 This PC Network 🔩 Homegroup File name: PACE_v5.0.0.msi All Supported Files (*.msi;*.mst ∨ \sim Cancel <u>O</u>pen
- If you want to modify MSI via MST, select New MST from the MENU to create a blank MST or apply your existing MST selecting Apply MST to MSI.





3.7.2 Application Details

Manage product name, version, language and manufacturer of the application.

• Go to the Package Summary tab and click Edit.



Update the necessary values of the Application details section and click Save.
 NOTE If you specify a new product language, append this language ID to a value of the Compatible languages field of the Package Designer -> Summary Information tab.

)	
Package summary	-		×
Application details			
Product name			
PACE Suite			
Product version			
5.0.0.63			
Manufacturer			
Infopulse			
Product language			
1033			~
Product code			
{B0795614-9098-47A0-9371-1B78F69C9394}		New	
Upgrade code			
{9DEF97C4-E079-4D35-B6A8-2D3427FDA23F}		New	
Package code			
{58FF1CA0-0525-43FB-96E6-08D9BA5F255A}		New	
Save Cancel			



3.7.3 Package IDs

Manage product, upgrade and package codes.

• Go to the Package Summary tab and click Edit.



Update the necessary values of the Package IDs section and click Save.
 NOTE For information, see Keep package names and package codes consistent.

Package summary	_		×
Application details			
Product name			
PACE Suite			
Product version			
5.0.0.63			
Manufacturer			
Infopulse			
Product language			
1033			~
Package IDs Product code			
{B0795614-9098-47A0-9371-1B78F69C9394}		New	
Upgrade code			
{9DEF97C4-E079-4D35-B6A8-2D3427FDA23F}		New	
Package code			
{58FF1CA0-0525-43FB-96E6-08D9BA5F255A}		New	
Save Cancel			





3.7.4 Files and Folders

Choose a scenario that better suits your needs:

- Add System Folder, described in section 3.7.4.1 Add a system (standard) folder to the package.
- Add Subfolder, described in section 3.7.4.2 Add a subfolder (user-defined folder) to the package.
- Import Files and COM, described in section 3.7.4.3 Import files along with their, extracted on-the-fly, COM information.
- Change Compression Type, described in section 3.7.4.4 Change the compression type for all package files by rebuilding the whole package.
- Set Permissions, described in section 3.7.4.5 Set custom permissions for a file or folder.
- **Remove Permissions**, described in section 3.7.4.6 Remove the custom permissions from a file or folder.
- Move File, Folder, described in section 3.7.4.7 Move a file or a folder from one folder to another.
- Set INSTALLDIR, described in section 3.7.4.8 Set a subfolder (user-defined folder) of the package as the INSTALLDIR.
- Control Empty Folder Creation, described in section 3.7.4.9 Force the empty folder creation on install.
- Control File/Folder Removal, described in section 3.7.4.10
 Force folder and its files removal on install or uninstall.
 NOTE By default, MSI removes only those files, which it installs. This means that files, created during the application work, will remain on the system.
- Edit INI File, described in section 3.7.4.11 Edit a name, destination location and content of the INI file, saved to the IniFile table.
- Edit File Properties, described in section 3.7.4.12 Edit a name, identifier, destination location, component and many other attributes of the file, saved to the File table.
- Edit Folder Properties, described in section 3.7.4.13 Edit a folder target and source names, identifier, and its parent folder.





3.7.4.1 Add System Folder

Add a system (standard) folder from the list into the package.

• Go to the Package Designer -> Files and folders tab.

Files and folders Name Type Size Version MSI table Shortcuts Image: TARGETDIR Folder Directory Custom actions Image: TarGETDIR Folder Directory Drivers Image: TarGETDIR Folder Directory ProgramFilesFolder Folder Directory ProgramFilesFolder Folder Directory ProgramMenuFolder Folder Directory Package configuration ProgramMenuFolder Folder Directory PACE Suite (ID: SHORTCUTLOCATION) Folder Directory Directory PACE Suite (ID: InfopulseProgramMenuFolder) Folder Directory Directory PACE Suite (ID: DOCUSHORTCUTLOCATION) Folder Directory Directory Upgrades PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Properties WindowsFolder Folder Directory Summary information Image: security Folder Directory Media settings Media settings Folder Image: Summary information	Package resources	Files and folders	426 file	s (142.0 MB) 🝸	Collapse all	Show detai
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E Summary information B C security Folder Directory Directory Directory	Properties	WindowsFolder	Folder			Directory
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	⊴ summary information	is second	Tode			Directory
	⊴ Summary information	i seconiy	1006			Directory
	i Summary information	i seconiy	Tode			Directory
	i Summary information	i seconiy	1006			Directory
	i Summary information	i seconiy	1006			Directory

• Ensure that the necessary system folder does not exist in the package. To display all package folders, clear the Hide empty folder and Hide items without permissions filters.

MSI Editor - PACE_v5.0.0.msi					- 🗆 ×	×
■ MENU Package Summary	Package Designer Tables Editor					
🕶 🗁 Package resources	Files and folders	426 files (142,0 MB) 🟹	Collanse all	Show details	
Files and folders	Name	Туре	Size	Hide empty f	folders	1
📌 Shortcuts	TARGETDIR	Folder		Hide remove	d items	- 11
🗞 Registry	DesktopFolder	Folder		Hide items w	ithout permissions	1
Custom actions	ProgramFilesFolder	Folder		Clear filter		
💉 Drivers	🗉 🔚 PACE Suite (ID: INSTALLDIR)	Folder			Directory	
🕶 🗁 Package configuration	ProgramMenuFolder	Folder			Directory	
Features and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory	
ARP appearance	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory	
C Upgrades	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory	
Properties	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory	
	WindowsFolder	Folder			Directory	
	tit security	Folder			Directory	
	Add • Remove					



To add system folders, select Add -> System folders from the toolbox. • MSI Editor - PACE_v5.0.0.msi

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≡ MENU Package Summary	Package Designer Tables Editor				
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🗞 Registry	DesktopFolder	Folder			Directory
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🐓 Drivers	PACE Suite (ID: INSTALLDIR)	Folder			Directory
🕶 🗁 Package configuration	ProgramMenuFolder	Folder			Directory
Eestures and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
ARP appearance	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
Proportion	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
Concernation	WindowsFolder	Folder			Directory
Summary Information	security	Folder			Directory
	Subfolder System folders				
	Add - Remove				

Choose system folders, which you want to add, and then click Add. Note that this list displays • only those folders, which do not exist in the opened package.

system folders	
he list displays predefined system folde	ers, which do not exist in the package yet. See all system folders description online.
Select all/none	
AdminToolsFolder	The full path to the directory that contains administrative tools.
🗹 AppDataFolder	The full path to the Roaming folder for the current user. A typical path is C:\Users\%USER
CommonAppDataFolder	The full path to application data for all users. A typical path is C:\ProgramData.
CommonFiles64Folder	The full path to the predefined 64 - bit Common Files folder. A typical path on 64-bit pla
CommonFilesFolder	The full path to the Common Files folder for the current user. A typical path on 64-bit pla
FavoritesFolder	The full path to the Favorites folder for the current user.
🗌 FontsFolder	The full path to the Fonts folder.
LocalAppDataFolder	The full path to the folder that contains local (nonroaming) applications. A typical path is (
MyPicturesFolder	The full path to the Pictures folder.
🗆 NetHoodFolder	The full path to the NetHood folder.
PersonalFolder	The full path to the Documents folder for the current user.
PrintHoodFolder	The full path to the PrintHood folder.
ProgramFiles64Folder	The full path to the predefined 64 - bit Program Files folder.
🗆 RecentFolder	The full path to the Recent folder.
🗆 SendToFolder	The full path to the SendTo folder for the current user.
StartMenuFolder	The full path to the Start menu folder.
StartupFolder	The full path to the Startup folder.
4	



For saving your package, select Save from the MENU. •



3.7.4.2 Add Subfolder

Add a subfolder (user-defined folder) to the package.

Go to the Package Designer -> Files and folders tab. •

Files and folders Type Size Version Ms1 table Shortcuts Folder Folder Directory Custom actions DesktopFolder Folder Folder Directory ProgramFilesFolder Folder Folder Directory Package configuration ProgramMeurFolder Folder Directory Package configuration ProgramMeurFolder Folder Directory Package configuration PACE Suite (ID: SIATCUTLOCATION) Folder Directory Package configuration PACE Suite (ID: SIATCUTLOCATION) Folder Directory PACE Suite (ID: SIATCUTLOCATION) Folder Directory Directory PACE Suite (ID: DOCUSHORTCUTLOCATION) Folder Directory Directory Properties WindowsFolder Folder Directory Summary information Security Folder Directory Media settings Security VindowsFolder Folder Directory	Files and folders Type Size Version Mit table Image: Shortcuts Folder Folder Directory Image: Shortcuts Folder Folder <td< th=""><th>Package resources</th><th>Files and folders</th><th>426 files</th><th>(142,0 MB) 🔽</th><th>Collapse all</th><th>Show det</th></td<>	Package resources	Files and folders	426 files	(142,0 MB) 🔽	Collapse all	Show det
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Properties Folder Directory Summary information Image: Security Folder Directory Media settings Image: Security Folder Directory	Properties © WindowsPolder Folder Directory Summary information © security Folder Directory	Deservation	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
Summary information	Summary information B security Folder Directory	Properties	WindowsFolder	Folder			Directory
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Ensure that the necessary subfolder does not exist in the package. To display all package folders, clear the Hide empty folder and Hide items without permissions filters.

SI Editor - PACE_v5.0.0.msi				– 🗆 X
≡ MENU Package Summary	Package Designer Tables Editor		2	
🕶 🖿 Package resources	Files and folders	426 files (1	142,0 MB)	Collanse all Show details
Files and folders	Name	Туре	Size	Hide empty folders
📌 Shortcuts	TARGETDIR	Folder		□ Hide removed items
🗞 Registry	DesktopFolder	Folder		Hide items without permissions
> Custom actions	ProgramFilesFolder	Folder		Clear filter
🗩 Drivers	PACE Suite (ID: INSTALLDIR)	Folder	_	Directory
🕶 🗁 Package configuration	ProgramMenuFolder	Folder		Directory
Eestures and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder		Directory
	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder		Directory
	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder		Directory
	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder		Directory
Concernation	WindowsFolder	Folder		Directory
Summary Information	security	Folder		Directory
	Add • Remove			

• Select New subfolder from the context menu of a folder, where you want to create a new subfolder. Note that system folders are displayed using the grey folder icon and the subfolders (user-defined folders) – using the brown folder icon.

MSI Editor - PACE_v5.0.0.msi							- 🗆	×
	Package Designer Tables Edito	r						
🕶 🗁 Package resources	Files and folders			426 files (1	42,0 MB) 🝸	Collapse all	Show deta	ils
Files and folders	Name			Туре	Size	Version	MSI table	
Shortcuts	TARGETDIR			Folder			Directory	
🗞 Registry	DesktopFolder			Folder			Directory	
Custom actions	ProgramFilesFolder			Folder			Directory	
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	MSI Generator (ID: MSIGE	Move to folder		Folder			Directory	
	MSI Generator (ID: MSIGE	Pomovo	Dal	Folder			Directory	
Summary information	Prerequisites	Remove		Folder			Directory	
📥 Media settings	EULA.rtf	Go to Directory table		RTF	119,8 KB		File	
	Release notes.pdf			PDF	1,1 MB		File	
	Release notes.xps			XPS	1,2 MB		File	
	ProgramMenuFolder			Folder			Directory	
	PACE Suite (ID: SHORTCUTLOCATION)			Folder			Directory	
	PACE Suite (ID: InfopulseProgramMenuFolder)			Folder			Directory	
	PACE Suite (ID: DOCUSHORTCO	PACE Suite (ID: DOCUSHORTCUTLOCATION)					Directory	
	PACE Suite (ID: EDITORSHORTO	CUTLOCATION)		Folder			Directory	
	WindowsFolder			Folder			Directory	
	security			Folder			Directory	
	Add • Remove							



• Enter a folder name and click Add.

Add subt	folder		×
Name			
	Add	Cancel	



• For saving your package, select Save from the MENU.





3.7.4.3 Import Files and COM

Import files along with their, extracted on-the-fly, COM information.

NOTE MSI Editor extracts both 32-bit and 64-bit COM information and .NET assemblies from the selected (*.DLL, *.OCX, *.LTB) files.

• Go to the Package Designer -> Files and folders tab.

MSI Editor - PACE_v5.0.0.msi					- 🗆	×
	Deskage Designed Tables Filter					
- MENO Package Summary	Package Designer Tables Editor					
🕶 🖿 Package resources	Files and folders	426 files (1	42,0 MB) 🝸	Collapse all	Show deta	ails
Files and folders	Name	Туре	Size	Version	MSI table	
Shortcuts	TARGETDIR	Folder			Directory	
🗞 Registry	DesktopFolder	Folder			Directory	
Custom actions	ProgramFilesFolder	Folder			Directory	
🗩 Drivers	PACE Suite (ID: INSTALLDIR)	Folder			Directory	
- E Package configuration	ProgramMenuFolder	Folder			Directory	
Eestures and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory	
	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory	
	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory	
Opgrades Decentrics	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory	
Properties	WindowsFolder	Folder			Directory	
Summary information		Folder			Directory	
	Add • Remove					

Select Import files from the context menu of a folder, to which you want to import files.
 MSI Editor - PACE_v5.00.msi

Package resources	Files and folders			426 file	s (142,0 MB) 🔽	Collapse all	Show detail
Files and folders	Name			Туре	Size	Version	MSI table
🕐 Shortcuts	TARGETDIR			Folder			Directory
🗞 Registry	DesktopFolder			Folder			Directory
> Custom actions	ProgramFilesFolder			Folder			Directory
🐓 Drivers	PACE Suite (ID: INSTALLDIR)			Folder			Directory
Package configuration	App-V Generator	New subfolder		Folder			Directory
	🕀 🔚 Docu Generator	Import files		Folder			Directory
 Peatures and components ARP appearance Upgrades Properties Summary information 	MSI Editor (ID: EDITORINS	Proportion	E2	Folder			Directory
	MSI Editor (ID: MSIEDITOR	Sot as INSTALLDIR	F2	Folder			Directory
	🗈 📄 MSI Generator (ID: MSIGE	Set as INSTALLDIK		Folder			Directory
	🗈 📄 MSI Generator (ID: MSIGE	Nove to folder		Folder			Directory
	🕀 📄 Prerequisites	Remove	Del	Folder			Directory
📇 Media settings	EULA.rtf	Go to Directory table		RTF	119,8 KB		File
	Release notes.pdf			PDF	1,1 MB		File
	Release notes.xps			XPS	1,2 MB		File
	ProgramMenuFolder			Folder			Directory
	PACE Suite (ID: SHORTCUTLOCATION)			Folder			Directory
	PACE Suite (ID: InfopulseProgramMenuFolder)			Folder			Directory
	PACE Suite (ID: DOCUSHORTCUTLOCATION)			Folder			Directory
	PACE Suite (ID: EDITORSHORTCUTLOCATION)			Folder			Directory
	WindowsFolder			Folder			Directory
	🗉 🛄 security			Folder			Directory



×

• Select Add -> Add files to choose files in a folder or Add -> Add folder to choose a folder with subfolders and files.

							×
			•				
			Files	Settings	Import COM		
Files to impo	rt						
Name		Size	Target path				
Add files							
Add files Add folder							
Add files Add folder Add 🔺	Remove					Fil	es: 0

• Choose files, which you want to import and click Open.

\rightarrow \checkmark \uparrow	> This	sPC > Documents > Sources > MyApp	pFiles1 v Ö	Search MyAppFiles1	J
rganize 👻 🛛 New	v folder	,			- 🔳 (
Quick access		Name	Date modified	Туре	Size
		🔊 config.ini	2/21/2017 2:38 PM	Configuration sett	1 KB
	~	dmview.ocx	2/21/2017 2:38 PM	ActiveX control	112 KB
Downloads	R	Ahctrl.ocx	2/21/2017 2:38 PM	ActiveX control	524 KB
🚆 Documents	*	🗟 msdxm.ocx	2/21/2017 2:38 PM	ActiveX control	5 KB
Pictures	*	S msscript.ocx	2/21/2017 2:38 PM	ActiveX control	101 KB
		My app.exe	3/18/2017 10:58 PM	Application	241 KB
		🔄 pdfshell.dll	2/21/2017 2:38 PM	Application extens	388 KB
This PC		Reader.helpcfg	2/21/2017 2:38 PM	HELPCFG File	1 KB
A Maturala		🔄 sysmon.ocx	2/21/2017 2:38 PM	ActiveX control	407 KB
Network		🔊 system.ini	2/21/2017 2:38 PM	Configuration sett	1 KB
🔩 Homegroup		🚳 tdc.ocx	2/21/2017 2:38 PM	ActiveX control	72 KB
		🗟 wshom.ocx	2/21/2017 2:38 PM	ActiveX control	123 KB
	File <u>n</u> a	me: "msscript.ocx" "My app.exe" "pdfshell	l.dll" "Reader.helpcfg" "sysm	All files (*.*)	
					<u> </u>



•

- Click Next to manage the import settings. Import files \times Files Settings Import COM Files to import Name Size Target path 756 Bytes ProgramFilesFolder\PACE Suite\Test\config.ini config.ini 111,5 KB ProgramFilesFolder\PACE Suite\Test\dmview.ocx dmview.ocx hhctrl.ocx 523,5 KB ProgramFilesFolder\PACE Suite\Test\hhctrl.ocx msdxm.ocx 5,0 KB ProgramFilesFolder\PACE Suite\Test\msdxm.ocx ProgramFilesFolder\PACE Suite\Test\msscript.ocx msscript.ocx 100,5 KB 241,0 KB ProgramFilesFolder\PACE Suite\Test\My app.exe My app.exe pdfshell.dll 387,1 KB ProgramFilesFolder\PACE Suite\Test\pdfshell.dll Reader.helpcfg 862 Bytes ProgramFilesFolder\PACE Suite\Test\Reader.helpcfg sysmon.ocx 407,0 KB ProgramFilesFolder\PACE Suite\Test\sysmon.ocx system.ini 136 Bytes ProgramFilesFolder\PACE Suite\Test\system.ini ProgramFilesFolder\PACE Suite\Test\tdc.ocx tdc.ocx 72,0 KB 123,0 KB ProgramFilesFolder\PACE Suite\Test\wshom.ocx wshom.ocx Add 🔺 Remove Files: 12 Next > Cancel Complete operation with default settings
- Select the INI file handling options, target feature settings and click Next. Find the detailed description of these settings in table below.



PACE	Suite	5.2 -	Getting	Started
------	-------	-------	---------	---------

e 5.2 - Getting Started						
Import files					- 0	×
	~ —					
	Files	Settings	Import COM			
Settings						
INI handling						
Save valid INI files to the 'IniFiles	le' table; invalid ones t	o the 'File' table (r	ecommended)			
O Save all INI files to the 'File' tak	ble					
O Save only valid content of all I	NI files to the 'IniFile' ta	able and then du	plicate all INI files to	the 'File' table		
See invalid INI files						
Target feature						
<pace feature=""></pace>				\sim	New featu	ire
I Manage reatures automaticali	У					

INI handling

Save valid INI files to the 'IniFile' table; invalid ones to the 'File' table (recommended)	INI files, which comply with the INI file format, will be saved to the 'IniFile' table. All other INI files, which contain unsupported data, will be saved to the 'File' table as binary files.
Save all INI files to the 'File' table	All INI files will be saved only to the 'File' table as binary files.
Save only valid content of all INI files to the 'IniFile' table and then duplicate all INI files to the 'File' table	A valid content of all INI files will be saved to the 'IniFile' table, and then all INI files will be saved to the 'File' table as binary files. This allows installing INI files to the target system keeping their original structure with unsupported data, and update the necessary INI file values.

Target feature

Manage features automatically	The specific PACE features will be created (or used if they exist) for the components, containing the imported files. Feature structure is based on the packaging best practices and depends on the destination location of files.
<a feature,="" from="" list="" selected="" the="">	Components with files will be assigned to a feature, selected from the list.

• If the selected files contain COM information, it will be displayed at this step. To include these registry entries to the package, tick the Import COM information option and click Finish.

		Files Settings In	nport COM	
Extracted (COM info	rmation		
File	Root	Кеу	Value name	Value
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C44		
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C44	1	C:\Users\pace\DOCUME~1\Sourc
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C44	ThreadingModel	Apartment
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C44	4	131473
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C44	4	0
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C44	A Contraction of the second seco	DiskManagement.Control
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C44	1	C:\Users\pace\DOCUME~1\Sourc
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C44	4	{AEB84C80-95DC-11D0-B7FC-B6
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C44	4	1.0
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C44	4	DiskManagement.Control
dmview.ocx	HKCR	CLSID\{AEB84C84-95DC-11D0-B7FC-B61140119C44	4	C:\Users\pace\DOCUME~1\Sourc
dmview.ocx	HKCR	CLSID\{AEB84C84-95DC-11D0-B7FC-B61140119C44	4	DiskManagement.PropertyPage
dmview.ocx	HKCR	DiskManagement.Control\CLSID		{AEB84C83-95DC-11D0-B7FC-B6
•				Þ
Import COM	information			
			4 De els	Finish

• Go to the Package Designer -> Media settings tab and choose the necessary compression type for the imported files. For the compressed files you can manage cabinet options such as cabinet (CAB) name, compression algorithm and maximum CAB size. Cabinets will be spit by the selected maximum size.

	MSI Editor - PACE_v5.0.0.msi	-		<
E MENU Package Summary Package Designer Tables Editor		ary Package Designer Tables Editor		
 Package resources Piles and folders Shortcuts Shortcuts Shortcuts Control statistics Piles and controls Piles and controls Phores Package configuration <	 Package resources Files and folders Shortcuts Registry Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information Media settings 	Media settings Define how the installation source files will be saved to the package. By default, only newly imported files will be processed when saving the package installation source files compression type, select "Rebuild Windows Installer Database (MSI)" from the 'Save as' dialog. Compression type Internal CAB Compression stallation source files to cabinet files, stored outside the MSI file. Incompatible with MST. Image: Package with the selected compression type, select "Rebuild Windows Installer Database (MSI)" from the 'Save as' dialog. Image: Package: Package with the selected compression type, select "Rebuild Windows Installer Database (MSI)" from the 'Save as' dialog. Image: Package: Packag	For 2 G	SB SB

Save

Edit

Help Quit

For saving your package, select Save from the MENU. •







3.7.4.4 Change Compression Type

Change the compression type for all package files by rebuilding the whole package. The rebuild package will be saved as a new separate MSI file.

 Go to the Package Designer -> Media settings tab and select a new compression type for all package files. Also, for compressed files you manage cabinet options such as cabinet (CAB) name, compression algorithm and maximum CAB size. Cabinets will be spit by the selected maximum size.

MSI Editor - PACE_v5.0.0.msi	-		×
	Package Designer Tables Editor		
 Package resources Files and folders Shortcuts Registry Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information Media settings 	Media settings Define how the installation source files will be saved to the package. By default, only newly imported files will be processed when saving the package vibility from the 'Save as' dialog Compression type Image: Set of the set o	ge. For	▼ 2 GB 2 GB

• Select Save as from MENU.


• Select the Rebuild Windows Installer Database (MSI) option and click Save.

Save as	×
Saving options	
O Windows Installer Database (MSI) Merge the changes with the database and save them to a new MSI file.	
 Rebuild Windows Installer Database (MSI) Merge the changes with the database and save them to a new MSI file. Rebuild this new MSI with the selected compression type. 	
O Windows Installer Transform (MST) Save the changes to a new MST file.	
 Windows Installer Patch (MSP) Create the Patch package based on the current changes. 	
☑ Open the save-to folder afterwards	
Save Cancel	

Choose a folder, to which the rebuilt MSI will be saved, and click Select Folder.
 <u>NOTE The "_Rebuilt package" subfolder will be automatically created.
</u>

Choose a destinati	on folder for MSI				×
← → • ↑ 🖺	> This PC > Documents > ~	Ō	Search Documents		9
Organize 👻 Nev	w folder				?
 Quick access Desktop Downloads Documents Pictures OneDrive This PC Network I Homegroup 	Name MSI Editor MSI Generator MSP My app files		Date modified 6/11/2018 11:21 AM 3/6/2017 1:44 PM 6/11/2018 5:21 PM 6/8/2018 2:03 PM	Type File folder File folder File folder	
	<				>
	Folder: Documents	[Select Folder	Cancel	



• Wait a little, while MSI Editor is rebuilding the package.

 Water - ACE y& Balance ACE y Balance A		tist Earter is repaired by the package.	_
• Made Design Participant Package Organization • Package Ansatz • Package Status • Package Status • Package Status • Package Configuration • Package Status • Package Configuration • Package Status • Package Status • Package Status • Upgrades • Package Status • Upgrades • Package Status • Upgrades • Objects • Upgrades • Objects • Upgrades • Objects • Upgrades • Objects • Objects • Objects • Obje	MSI Editor - PACE_v5.0.0.msi		\times
 Package resource Files and folds: Shortcuts Shortcuts Shortcuts Cutson actions Chrone sing table to explore sing the source files will be saved to the package. By default, only newly imported files will be processed when saving the package. For explore sing the whole package with the selected compression type. select "Rebuild Windows Installer Database (MSI)" from the "Save as" dialog: Cutson actions Chrone sing table to explore sing table to explore sing the source files to cabine files, stored inside the MSI file. Incompatible with MSI. Chrone sing table to explore sing table to explore sing files to cabine files, stored outside the MSI file. Incompatible with MSI. Chrone sing table to explore sing files to cabine files, stored outside the MSI file. Incompatible with MSI. Chrone sing files to cabine files, stored outside the MSI file. Incompatible with MSI. Compressing files to cabinet files, stored outside the MSI file. Compressing files to cabinet files. Compressing files to cabinet file. Compressing files to cabinet file. Compressing files to cabinet. Mote files. Mote files. Mote files. Compressing files. Compressing files. Compressing files. Compressing files. Compressing files.<td></td><td>Package Designer Tables Editor</td><td></td>		Package Designer Tables Editor	
	 Package resources Files and folders Shortcuts Registry Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information Media settings 	Media settings Define how the installation source files will be saved to the package. By default, only newly imported files will be processed when saving the package exbuilding the whole package with the selected compression type, select "Rebuild Windows Installer Database (MSI)" from the 'Save as' dialog. Compression type Internal CAB Compress installation source files to cabinet files, stored inside the MSI file. Incompatible with MST. External CAB Compress installation source files to cabinet files, stored outside the MSI file. Outcompressed Store uncompressed installation source files outside the MSI file. Use existing structure Process installation source files to cabinets Compressing files to cabinets Compression type Cabinet options Compression algorithm MS-ZIP Masted on MSI file name NOTE In case of creating several CAB files, the last symbol in CAB name will be replaced with the incrementing integer. Compression algorithm MS-ZIP Masted site Integer 	2 GB 2 GB

• Once the package is rebuilt, the save-to folder will be automatically opened.

	pace\Documents_Rebui	lt package						- 0	×
File Home Share	View								~ 🕐
← → ` ↑]. > Th	is PC → Documents →	_Rebuilt package				~	Ō	Search _Rebuilt package	P,
Quick access	Name	^	Date modified	Туре	Size				
Desktop	🛃 PACE_v5.0.0.msi		12/4/2018 4:26 PM	Windows Installer	55,432 KB				
Downloads #									
🔮 Documents 🖈									
📰 Pictures 🛛 🖈									
OneDrive									
💻 This PC									
💣 Network									
• 4 Homegroup									
1 item									III Act



3.7.4.5 Set Permissions

Set custom permissions for a file or folder.

• Go to the Package Designer -> Files and folders tab.

MSI Editor - PACE_v5.0.0.msi					- 0
MENU Package Summary	Package Designer Tables Editor				
Package resources	Files and folders	426 files (14	42,0 MB) 🝸	Collapse all	Show details
Files and folders	Name	Туре	Size	Version	MSI table
📌 Shortcuts	TARGETDIR	Folder			Directory
🗞 Registry	DesktopFolder	Folder			Directory
Custom actions	ProgramFilesFolder	Folder			Directory
💋 Drivers	PACE Suite (ID: INSTALLDIR)	Folder			Directory
Package configuration	ProgramMenuFolder	Folder			Directory
Eestures and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
Dipgrades PACE Suite (ID: EDITORSHORTCUTLOCATION)	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
Properties	WindowsFolder	Folder			Directory
Summary information	🗉 🦳 security	Folder			Directory
	Add • Remove				

• Select **Properties** from the context menu of a file or folder, for which you want to set custom permissions.

MSI Editor - PACE_v5.0.0.msi							- 🗆 ×
■ MENU Package Summary	Package Designer Tables Edito	r					
🕶 🗁 Package resources	Files and folders			426 files	(142,0 MB) 🝸	Collapse all	Show details
Files and folders	Name			Туре	Size	Version	MSI table
Shortcuts	TARGETDIR			Folder			Directory
🗞 Registry	DesktopFolder			Folder			Directory
Custom actions	ProgramFilesFolder			Folder			Directory
💋 Drivers	PACE Suite (ID: INSTALLDIR)			Folder			Directory
Package configuration	App-V Generator	New subfolder		Folder			Directory
	🗉 📗 Docu Generator	Import files		Folder			Directory
Peatures and components MSI Editor (ID: EDITORINS	Properties E	2	Folder			Directory	
	MSI Editor (ID: MSIEDITOR			Folder			Directory
Upgrades	🗈 📗 MSI Generator (ID: MSIGE	Move to folder		Folder			Directory
Properties	MSI Generator (ID: MSIGE	Nove to loider		Folder			Directory
Summary information	🕀 📗 Prerequisites	Remove Dei	/ei	Folder			Directory
- Media settings	EULA.rtf	Go to Directory table		RTF	119,8 KB		File
	Release notes.pdf			PDF	1,1 MB		File
	Release notes.xps			XPS	1,2 MB		File
	ProgramMenuFolder			Folder			Directory
	PACE Suite (ID: SHORTCUTLOC	ATION)		Folder			Directory
	PACE Suite (ID: InfopulseProgra	amMenuFolder)		Folder			Directory
	PACE Suite (ID: DOCUSHORTCO	JTLOCATION)		Folder			Directory
	PACE Suite (ID: EDITORSHORTO	CUTLOCATION)		Folder			Directory
	WindowsFolder			Folder			Directory
	security			Folder			Directory
	Add • Remove						



• Go to the Permissions tab of the opened Properties window.

Properties			- 🗆	>
General	Operations	Permissions		
Enable permission changes				
Group/SID	Access rig	nts	Allow	Deny
	Full contr	ol		
	Modify			
	Read and	Execute		
	List Folde	er Contents		
	Read			
	Write			
	Special p	ermissions		
	Select	special permissions		
	Apply and/o	'Allow' permissions to r containers within this	objects container	only
Add Remove	Apply and/o	'Deny' permissions to r containers within this	objects container	only
Enable inheritance				
Propagate inheritable permissions to a	all subfolders an	d files		\sim
Sa	we C	ancel		



• Tick the Enable permission changes checkbox and click Add to add a group or SID, for which you want to set permissions.

-						_	
Properties					_)
	General	Oper	ations	Permissions			
🛛 Enable nermissi	on changes						
Crown (SID	on enonges		Access righ	its		Allow	Deny
Group/SID			Full contr	ol			
			Modify				
			Read and	Execute			
			List Folde	er Contents			
			Read				
			Write				
			Special p	ermissions			
			Select	special permissions			
			Apply and/o	'Allow' permissions r containers within tl	to obje his con	ects Intainer	only
Add	Pamova	1	Apply and/o	'Deny' permissions t r containers within tl	to obje his con	ects ntainer	only
	Keniove						
🗹 Enable inheritan	ice						

• Select a group from the list or enter SID manually and then click Add.

A	dd Group or SID	×
⊙G	Group	
В	Built-in users (BU)	~
O S	ID	
	Add Ca	ancel



• Select the necessary access rights for the added group or SID and click Save. NOTE The set permissions will be propagated using the SecEdit tool.

	nopugatea	doning the sece		
Properties			— [- X
General C	perations	Permissions		
Enable permission changes				
Group/SID	Access righ	ts	Allo	ow Deny
Built-in users (BU)	Full contr	ol		
	Modify		✓	
	Read and	Execute	✓	
	List Folder Contents		\checkmark	
	Read		✓	
	Write		\checkmark	
	Special permissions			
	Select	special permissions		
	Apply and/or	'Allow' permissions containers within t	to objects his contain	er only
Add Remove	Apply and/or	'Deny' permissions containers within t	to objects his contain	er only
✓ Enable inheritance				
Propagate inheritable permissions to all	subfolders and	d files		~
Save	e C	ancel		



3.7.4.6 Remove Permissions

Remove the custom permissions from a file or folder.

• Go to the Package Designer -> Files and folders tab.

Files and folders Shortcuts Registry Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties	Folder FilesFolder ACE Suite (ID: INSTALLDIR) MenuFolder E Suite (ID: DOCUSHORTCUTLOCATION) E Suite (ID: EDITORSHORTCUTLOCATION)	Type Folder Folder Folder Folder Folder Folder	Size	Version	MSI table Directory Directory Directory
Shortcuts Registry Desktop Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Registry Properties Registry Custom actions TAGETDIR Tagettor Tag	Folder FilesFolder ACE Suite (ID: INSTALLDIR) MenuFolder E Suite (ID: DOCUSHORTCUTLOCATION) E Suite (ID: EDITORSHORTCUTLOCATION)	Folder Folder Folder Folder Folder Folder			Directory Directory Directory
Registry Desktop Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Registry Desktop	Folder FilesFolder ACE Suite (ID: INSTALLDIR) MenuFolder E Suite (ID: DOCUSHORTCUTLOCATION) E Suite (ID: EDITORSHORTCUTLOCATION)	Folder Folder Folder Folder Folder Folder			Directory Directory
Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Review	FilesFolder ACE Suite (ID: INSTALLDIR) MenuFolder E Suite (ID: DOCUSHORTCUTLOCATION) E Suite (ID: EDITORSHORTCUTLOCATION)	Folder Folder Folder Folder			Directory
Drivers Drivers Package configuration Peatures and components ARP appearance Upgrades Properties Properties Drivers Drive	ACE Suite (ID: INSTALLDIR) MenuFoider E suite (ID: DOCUSHORTCUTLOCATION) E suite (ID: EDITORSHORTCUTLOCATION)	Folder Folder Folder			
Package configuration Program Features and components PACE ARP appearance PACE Upgrades PACE Properties Windows	MenuFolder E Suite (ID: DOCUSHORTCUTLOCATION) E Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
Features and components PACE ARP appearance PACE Upgrades PACE Properties Windows	E Suite (ID: DOCUSHORTCUTLOCATION) E Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
ARP appearance PACE Upgrades PACE Properties Windows	Suite (ID: EDITORSHORTCUTLOCATION)				Directory
PARP appearance Pace Upgrades Pace Properties Windows		Folder			Directory
Properties PACE	Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
Properties	Suite (ID: SHORTCUTLOCATION)	Folder			Directory
	sFolder	Folder			Directory
Summary information	rity	Folder			Directory

• (*Optional step*) Apply the Hide items without permissions filter to display only those files and folders, which have custom permissions.

MSI Editor - PACE_v5.0.0.msi			- 🗆 ×
■ MENU Package Summary	Package Designer Tables Editor		
	Package Designer Lables Editor Files and folders Name Image: TargetDir Image: TargetDir Image: ProgramFilesFolder Image: ProgramFilesFolder Image: ProgramFilesFolder Image: ProgramMenuFolder	427 files (142,0 1 Type Size Folder Folder Folder Folder Folder Folder	MB) V Collanse all Show details e Hide empty folders Hide removed items Clear filter Directory Directory Directory
 Features and components ARP appearance Upgrades Properties Summary information Media settings 	PACE Suite (ID: EDITORSHORTCUTLOCATION) PACE Suite (ID: InfopulseProgramMenuFolder) PACE Suite (ID: SHORTCUTLOCATION) WindowsFolder Security	Folder Folder Folder Folder Folder	Directory Directory Directory Directory Directory Directory
	Add A Remove		



• Select **Properties** from the context menu of a file or folder, for which you want to remove custom permissions.



• Go to the Permissions tab of the opened Properties window.

Properties		– 🗆 X
General	Operations Permissions	
Enable permission changes		
Group/SID	Access rights	Allow Deny
Built-in users (BU)	Full control	
	Modify	
	Read and Execute	
	List Folder Contents	
	Read	
	Write	
	Special permissions	
	Select special permissio	ns
	 Apply 'Allow' permissio and/or containers with 	ons to objects in this container only
	 Apply 'Deny' permissio and/or containers with 	ns to objects in this container only
Add Remove		
Enable inheritance		
Propagate inheritable permissions to a	II subfolders and files	~
Sav	/e Cancel	



• Untick the Enable permission changes checkbox and click Save.

Properties				_		×
Gener	al Ope	rations	Permissions			
Enable permission change	i					
Group/SID		Access righ	ts		Allow	Deny
		Full contro	ol			
		Modify				
		Read and	Execute			
		List Folde	r Contents			
		Read				
		Write				
		Special pe	ermissions			
		Select	special permissions			
		Apply and/or	'Allow' permissions containers within t	to objec this conta	ts ainer (only
		Apply	'Deny' permissions	to objec	ts	
Add Remo	/e	and/or	containers within t	this conta	ainer	only
Enable inheritance						
Propagate inheritable permis	sions to all sul	ofolders and	d files			\sim
	Course					
	Save		ancel			





3.7.4.7 Move File, Folder

Move a file or a folder from one folder to another. Note that moving a file of the multi-file component will result in creating a new individual component for the moved file.

• Go to the Package Designer -> Files and folders tab.

Package resources	Files and folders	426 file	es (142,0 MB)	Collapse all	Show deta
Files and folders	Name	Туре	Size	Version	MSI table
📌 Shortcuts	TARGETDIR	Folder			Directory
🗞 Registry	DesktopFolder	Folder			Directory
Custom actions	ProgramFilesFolder	Folder			Directory
🖋 Drivers	PACE Suite (ID: INSTALLDIR)	Folder			Directory
Package configuration	ProgramMenuFolder	Folder			Directory
Eastures and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
D Upgrades	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
Properties	WindowsFolder	Folder			Directory
Summary information	🗈 🛅 security	Folder			Directory

• Select Move to folder from the context menu of a file or folder, which you want to move to another folder.

Package resources	Files and folders		426 file	es (142,0 MB) 🛛 🔨	Collapse all	Show detai
Files and folders	Name		Туре	Size	Version	MSI table
Shortcuts	TARGETDIR		Folder			Directory
🗞 Registry	DesktopFolder		Folder			Directory
Custom actions	ProgramFilesFolder		Folder			Directory
🐓 Drivers	PACE Suite (ID: INSTALLDIR)		Folder			Directory
Package configuration	App-V Generator	New subfolder	Folder			Directory
	🗉 🔝 Docu Generator	Import files	Folder			Directory
APP appearance	MSI Editor (ID: EDITORINS	MSI Editor (ID: EDITORINS Properties F2	Folder			Directory
📮 ARF appearance	MSI Editor (ID: MSIEDITOP	Set as INSTALLDIR	Folder			Directory
Opgrades	MSI Generator (ID: MSIGE	Move to folder	Folder			Directory
Properties	MSI Generator (ID: MSIGE	Nove to loider	Folder			Directory
Summary information	Prerequisites	Remove Del	Folder			Directory
Media settings	EULA.rtf	Go to Directory table	RTF	119,8 KB		File
	Release notes.pdf		PDF	1,1 MB		File
	Release notes.xps		XPS	1,2 MB		File
	ProgramMenuFolder		Folder			Directory
	PACE Suite (ID: SHORTCUTLOC	ATION)	Folder			Directory
	PACE Suite (ID: InfopulseProgra	amMenuFolder)	Folder			Directory
	PACE Suite (ID: DOCUSHORTCU	JTLOCATION)	Folder			Directory
	PACE Suite (ID: EDITORSHORTC	CUTLOCATION)	Folder			Directory
	WindowsFolder		Folder			Directory
	🗉 📄 security		Folder			Directory



• Select a new destination location from the folders tree and click Select.

Select a folder	_	×
Name		*
TARGETDIR		
DesktopFolder		
ProgramFilesFolder		
🖃 🔜 PACE Suite		
App-V Generator		
🖃 🔜 Docu Generator		
de-DE		
en-US		
Templates		
MSI Editor		
🖃 🔚 ActiveScripting		
Scripts		
Docs		
DocTemplates		
en-US		
🖃 🛄 ExternalTools		
PatchCreation		
PatchTool		
QualityAssistant		
E Projects		
checklists		
SccmPublishScript		
IconDil		
Properties		
to enable.		
T Select Cancel		





3.7.4.8 Set INSTALLDIR

Set a subfolder of the package as the INSTALLDIR. This means that an identifier of the selected folder will be changed to the 'INSTALLDIR' value. Usually, the INSTALLDIR property represents the main product installation folder, and you can re-define this path via the command line or a Custom Action.

• Go to the Package Designer -> Files and folders tab.

MSI Editor - PACE_v5.0.0.msi					– 🗆 X
■ MENU Package Summary	Package Designer Tables Editor				
🕶 🗁 Package resources	Files and folders	426 files (1	42,0 MB) 💙	Collapse all	Show details
Files and folders	Name	Туре	Size	Version	MSI table
Shortcuts	TARGETDIR	Folder			Directory
🗞 Registry	DesktopFolder	Folder			Directory
Custom actions	ProgramFilesFolder	Folder			Directory
💉 Drivers	PACE Suite (ID: INSTALLDIR)	Folder			Directory
🕶 🗁 Package configuration	ProgramMenuFolder	Folder			Directory
Eestures and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
Opgrades	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
Properties	WindowsFolder	Folder			Directory
Summary information		Folder			Directory
	Add • Remove				

• Select Set as INSTALLDIR from the context menu of a folder, identifier of which you want to change to 'INSTALLDIR'. NOTE Identifiers of system folders are fixed and could be not changed.

MSI Editor - PACE_v5.0.0.msi							- 🗆 ×
■ MENU Package Summary	Package Designer Tables Edito	or					
🕶 🗁 Package resources	Files and folders			426 files	; (142,0 MB)	Collapse all	Show details
Files and folders	Name			Туре	Size	Version	MSI table
Shortcuts	TARGETDIR			Folder			Directory
🗞 Registry	DesktopFolder			Folder			Directory
Custom actions	ProgramFilesFolder			Folder			Directory
👉 Drivers	PACE Suite (ID: INSTALLDIR)			Folder			Directory
- E Package configuration	App-V Generator	New subfolder		Folder			Directory
Eastures and components	🗉 📄 Docu Generator	Import files		Folder			Directory
	🕒 📗 MSI Editor (ID: EDITORINS	Properties P	-2	Folder			Directory
	MSI Editor (ID: MSIEDITOR	Set as INSTALLDIR	-	Folder			Directory
Dipgrades	🗈 📗 MSI Generator (ID: MSIGE	Move to folder		Folder			Directory
Properties	🗈 📗 MSI Generator (ID: MSIGE	Nove to loider		Folder			Directory
Summary information	🗈 📄 Prerequisites	Kemove L		Folder			Directory
📥 Media settings	EULA.rtf	Go to Directory table		RTF	119,8 KB		File
	Release notes.pdf			PDF	1,1 MB		File
	Release notes.xps			XPS	1,2 MB		File
	ProgramMenuFolder			Folder			Directory
	PACE Suite (ID: SHORTCUTLOC	ATION)		Folder			Directory
	PACE Suite (ID: InfopulseProgra	amMenuFolder)		Folder			Directory
	PACE Suite (ID: DOCUSHORTCU	UTLOCATION)		Folder			Directory
	PACE Suite (ID: EDITORSHORTO	CUTLOCATION)		Folder			Directory
	WindowsFolder			Folder			Directory
	🗄 🔄 secunty			Folder			Directory
	Add • Remove						

For saving your package, select Save from the MENU. •



3.7.4.9 Control Empty Folder Creation

Force the empty folder creation on install. By default, Windows Installer creates only folders, which contain files.

Go to the Package Designer -> Files and folders tab. •

Package resources	Files and folders	426 file	es (142,0 MB) 💙	Collapse all	Show detail
Files and folders	Name	Туре	Size	Version	MSI table
📌 Shortcuts	TARGETDIR	Folder			Directory
🗞 Registry	DesktopFolder	Folder			Directory
Custom actions	ProgramFilesFolder	Folder			Directory
🐓 Drivers	PACE Suite (ID: INSTALLDIR)	Folder			Directory
Package configuration	ProgramMenuFolder	Folder			Directory
Eastures and sempenants	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
Preatures and components	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
AKP appearance	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
Upgrades	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
Properties	WindowsFolder	Folder			Directory
Summary information	security	Folder			Directory



• Select **Properties** from the context menu of an empty folder, which you want to create on install on the target system.

Package resources	Files and folders		426 file	es (142,0 MB)	Collapse all	Show detail
Files and folders	Name		Туре	Size	Version	MSI table
Shortcuts	TARGETDIR		Folder			Directory
🗞 Registry	DesktopFolder		Folder			Directory
Custom actions	ProgramFilesFolder		Folder			Directory
Drivers Package configuration	🖃 📄 PACE Suite (ID: INSTALL	LDIR)	Folder			Directory
	App-V Generator		Folder			Directory
	🗉 📗 Docu Generator	tor New subfolder D: EDI Import files	Folder			Directory
Peatures and components	MSI Editor (ID: EDI		Folder			Directory
AKP appearance	MSI Editor (ID: MS	Properties F2	Folder			Directory
Upgrades	MSI Generator (ID:	Set as INSTALLDIR	Folder			Directory
Properties	MSI Generator (ID:	Move to folder	Folder			Directory
Summary information	Prerequisites	Remove Del	Folder			Directory
📇 Media settings	EULA.rtf		RTF	119,8 KB		File
	Release notes.pdf	Go to Directory table	PDF	1,1 MB		File
	Release notes.xps		XPS	1,2 MB		File
	ProgramMenuFolder		Folder			Directory
	PACE Suite (ID: SHORTO	CUTLOCATION)	Folder			Directory
	PACE Suite (ID: Infopuls	seProgramMenuFolder)	Folder			Directory
	PACE Suite (ID: DOCUSI	HORTCUTLOCATION)	Folder			Directory
	PACE Suite (ID: EDITOR:	SHORTCUTLOCATION)	Folder			Directory
	WindowsFolder		Folder			Directory
			Folder			Directory

• Go to the **Operations** tab of the opened **Properties** window.

© P	roperties				- 0	×
		General	Operations	Permissions		
	Create empty folde	er				
	NOTE This folder u	vill be created	when the compose	ant is baing installed		\sim
	Remove empty fol Component_	der	when the compon	ent is being installed.		
						\sim
	Remove only will	hen the comp	onent is being inst	alled		
	Remove only will	hen the comp	onent is being unir	nstalled		
	Remove when t	he componen	t is being installed	and uninstalled		
	Remove folder file	s				
	ID File name/ma	ask Mode Con	nponent_			
	Add new entry					
			Save (Cancel		



• Tick the Create empty folder option and select a component, which will control the folder creation, and click Save.

				—	2
	General	Operations	Permissions		
Create empty fol	der				
ContextMenuAr	pv				~
NOTE This folder	will be created	when the compone	ent is being installed	d.	
Remove empty for	older				
Component_					
					\sim
Remove only v	when the comp	onent is being insta	lled		
Remove only v	when the comp	onent is being unin	stalled		
Remove when	the componen	t is being installed a	and uninstalled		
🗆 Remove folder fil	es				
ID File name/n	nask Mode Con	nponent_			
Add new entry					
		Save C	ancel		





3.7.4.10 Control File/Folder Removal

Force folder and its files removal on install or uninstall.

NOTE By default, MSI removes only those files, which it installs. This means that files, created during the application work, will remain on the system.

• Go to the Package Designer -> Files and folders tab.

MSI Editor - PACE_v5.0.0.msi	<u> </u>				- 🗆 ×
■ MENU Package Summary	Package Designer Tables Editor				
🕶 🗁 Package resources	Files and folders	426 files (1	42,0 MB) 🝸	Collapse all	Show details
Files and folders	Name	Туре	Size	Version	MSI table
Shortcuts	TARGETDIR	Folder			Directory
🗞 Registry	DesktopFolder	Folder			Directory
Custom actions	ProgramFilesFolder	Folder			Directory
🗩 Drivers	PACE Suite (ID: INSTALLDIR)	Folder			Directory
🗕 🗁 Package configuration	ProgramMenuFolder	Folder			Directory
Eeatures and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
G Upgrades	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
Broparties	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
	WindowsFolder	Folder			Directory
Summary Information	security	Folder			Directory
	Add A Remove				

• Select **Properties** from the context menu of a folder, files of which or folder itself you want to remove on install or on uninstall.

MSI Editor - PACE_v5.0.0.msi							- 🗆	×
	Package Designer Tables Edito	r						
🕶 🖻 Package resources	Files and folders			426 files	(142,0 MB) 🝸	Collapse all	Show details	
Files and folders	Name			Туре	Size	Version	MSI table	
📌 Shortcuts	TARGETDIR			Folder			Directory	
🗞 Registry	DesktopFolder			Folder			Directory	
> Custom actions	ProgramFilesFolder			Folder			Directory	
🐓 Drivers	PACE Suite (ID: INSTALLDIR)			Folder			Directory	
 Package configuration 	App-V Generator	New subfolder		Folder			Directory	
Eastures and components	🗉 📄 Docu Generator	Import files		Folder			Directory	
	MSI Editor (ID: EDITORINS	Properties	F2	Folder			Directory	
	MSI Editor (ID: MSIEDITOR		12	Folder			Directory	
Opgrades	MSI Generator (ID: MSIGE	Move to folder		Folder			Directory	
Properties	MSI Generator (ID: MSIGE	Nove to loider	Del	Folder			Directory	
Summary information	Summary information B Prerequisites Remove Del Media settings E EULA.rtf Go to Directory table			Folder			Directory	
🚔 Media settings				RTF	119,8 KB		File	
	Release notes.pdf				1,1 MB		File	
	Release notes.xps			XPS	1,2 MB		File	
	ProgramMenuFolder			Folder			Directory	
	PACE Suite (ID: SHORTCUTLOCATION)			Folder			Directory	
	PACE Suite (ID: InfopulseProgramMenuFolder)			Folder			Directory	
	PACE Suite (ID: DOCUSHORTCUTLOCATION)			Folder			Directory	
	PACE Suite (ID: EDITORSHORTCUTLOCATION)			Folder			Directory	
	WindowsFolder			Folder			Directory	
				Folder			Directory	
	Add • Remove							



• Go to the Operations tab of the opened Properties window.

Properties				-	×
	General	Operations	Permissions		
Create empty folde	er				
Component_					
					\sim
NOTE This folder w	vill be created	when the compone	ent is being installed	d.	
Remove empty fol	der				
Component_					
					\sim
Remove only with the second	hen the comp	onent is being insta	lled		
Remove only whether the second sec	hen the comp	onent is being unin	stalled		
Remove when t	he componer	nt is being installed a	and uninstalled		
Remove folder files	5				
ID File name/ma	sk Mode Cor	mponent_			
Add new entry					
		<i>c c c c c c c c c c</i>			



• To remove a folder, tick the **Remove empty folder** option, select a component, which will control the folder removal, and the removal conditions (on install, uninstall, or both).

Properties				_	Х
	General	Operations	Permissions		
Create empty fold	er				
Component_					_
					\sim
NOTE This folder v	vill be created	when the compon	ent is being installed	d.	
Remove empty fol Component_	der				
cmp0AD5B5B486	F0407826081	628CD86768A			~
 Remove only whether the second second	hen the comp	onent is being insta	alled		
 Remove only whether the second second	hen the comp	onent is being <mark>un</mark> ir	stalled		
Remove when t	he componen	t is being installed	and uninstalled		
Remove folder file	S				
ID File name/ma	isk Mode Con	nponent_			
Add new entry					
		Cours (
		Save	lancel		

• To remove files of this folder tick the **Remove folder files** option and click **Add new entry**. Edit row cells, highlighted in red, to specify a complete file name or with <u>wildcards</u> to remove either a specific file or set of files, then choose removal conditions (Mode) from the drop-



down list, and a component, which will control the files removal. Afterwards, click Save.

General Operations Permissions Create empty folder Component_ NOTE This folder will be created when the component is being installed. NOTE This folder will be created when the component is being installed. Remove empty folder Component_ Cmp0AD5B5B486F0407826081628CD86768A Remove only when the component is being installed Remove only when the component is being uninstalled Remove when the component is being uninstalled Remove when the component is being uninstalled Remove folder files	Properties						_		×
□ Create empty folder Component_ NOTE This folder will be created when the component is being installed. ☑ Remove empty folder Component_ □ cmp0AD5B5B486F0407826081628CD86768A ○ Remove only when the component is being installed ○ Remove only when the component is being installed ○ Remove only when the component is being installed ○ Remove only when the component is being uninstalled ○ Remove only when the component is being uninstalled ○ Remove only when the component is being uninstalled ○ Remove only when the component is being uninstalled ○ Remove only when the component is being uninstalled ○ Remove only when the component is being uninstalled ○ Remove only when the component is being uninstalled ○ Remove folder files		General Or	oratio	ns	Dermiss	ions			
 Create empty folder Component			eratio	115	Permiss	IONS			
Component_ NOTE This folder will be created when the component is being installed. Remove empty folder Component_ cmp0AD5B5B486F0407826081628CD86768A Remove only when the component is being installed Remove only when the component is being uninstalled Remove when the component is being uninstalled Remove when the component is being installed and uninstalled Remove folder files	Create empty fold	er							
NOTE This folder will be created when the component is being installed.	Component_								
NOTE This folder will be created when the component is being installed. Image: Remove empty folder Component_ cmp0AD5B5B486F0407826081628CD86768A O Remove only when the component is being installed O Remove only when the component is being uninstalled Image: Remove when the component is being installed and uninstalled Image: Remove folder files									\sim
 Remove empty folder Component_ cmp0AD5B5B486F0407826081628CD86768A O Remove only when the component is being installed O Remove only when the component is being uninstalled I Remove when the component is being installed and uninstalled I Remove folder files 	NOTE This folder v	will be created when	the co	mponent	is being	installed	d.		
Component_ cmp0AD5B5B486F0407826081628CD86768A	☑ Remove empty fo	lder							
cmp0AD5B5B486F0407826081628CD86768A • ○ Remove only when the component is being installed • ○ Remove only when the component is being uninstalled • ● Remove when the component is being installed and uninstalled • ■ Remove folder files •	Component_								
 Remove only when the component is being installed Remove only when the component is being uninstalled Remove when the component is being installed and uninstalled Remove folder files 	cmp0AD5B5B486	5F0407826081628CD	86768	Ą					~
 Remove only when the component is being uninstalled Remove when the component is being installed and uninstalled Remove folder files 	 Remove only w 	hen the component	is bein	g installed	b				
 Remove when the component is being installed and uninstalled Remove folder files 	○ Remove only w	hen the component	is bein	g uninstal	lled				
Remove folder files	Remove when t	the component is be	ing inst	talled and	l uninstall	led			
	Remove folder file	s							
ID File name/mask Mode Component_	ID	File name/mask	Mode	Compone	ent_				_
INSTALLDIR_3 *.log 3 cmp0AD5B5B486F0407826081628CD86768A	► INSTALLDIR_3	*.log	3	cmp0AD5	B5B486F04	40782608	81628CD	86768A	-
									~
	Add new entry								
Add new entry				Cre	e e l				
Add new entry		Save)	Can	cel				



3.7.4.11 Edit INI File

Edit a name, destination location and content of the INI file, saved to the IniFile table. Note that some INI files could be saved to the File table as binary files and their content could not be modified using this approach.

• Go to the Package Designer -> Files and folders tab.

BI Editor - PACE_v5.0.0.msi	~~~~~				- 🗆 ×
	Package Designer Tables Editor				
🕶 🗁 Package resources	Files and folders	426 files (14	42,0 MB) 🔽	Collapse all	Show details
Files and folders	Name	Туре	Size	Version	MSI table
Shortcuts	TARGETDIR	Folder			Directory
🗞 Registry	DesktopFolder	Folder			Directory
Custom actions	ProgramFilesFolder	Folder			Directory
💉 Drivers	🕒 🖿 PACE Suite (ID: INSTALLDIR)	Folder			Directory
🕶 🗁 Package configuration	ProgramMenuFolder	Folder			Directory
Eeatures and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
ARP appearance	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
G Upgrades	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
Properties	WindowsFolder	Folder			Directory
Summary Information	🕀 🛄 security	Folder			Directory
	Add • Remove				

• Select **Properties** from the context menu of an INI file, which you want to edit. NOTE Using this approach you can review and modify content only those INI files, which are saved to the IniFile table (see the **MSI table** column).

Package resources	Files and folders		427 file	s (142,0 MB) 🝸	Collapse all	Show detai
Files and folders	Name		Туре	Size	Version	MSI table
Shortcuts	TARGETDIR		Folder			Directory
🗞 Registry	DesktopFolder		Folder			Directory
Custom actions	ProgramFilesFolder		Folder			Directory
🖌 Drivers	PACE Suite (ID: INS	TALLDIR)	Folder			Directory
Package configuration	App-V Generat	pr	Folder			Directory
Eastures and components	🗉 📗 Docu Generato	r	Folder			Directory
Preatures and components	MSI Editor (ID:	EDITORINSTALLDIR)	Folder			Directory
ARP appearance	MSI Editor (ID:	MSIEDITORROOT)	Folder			Directory
J Upgrades	🗉 🚞 MSI Generator	(ID: MSIGENERATORROOT)	Folder			Directory
Properties	MSI Generator	(ID: MSIGENINSTALLDIR)	Folder			Directory
Summary information	Prerequisites		Folder			Directory
🚍 Media settings	📄 config.ini		INI			IniFile
	EULA.rtf	New subfolder	RTF	119,8 KB		File
	Release note	Import files	PDF	1,1 MB		File
	Release note	Properties F2	XPS	1,2 MB		File
	ProgramMenuFolder	Set as INSTALLDIR	Folder			Directory
	PACE Suite (ID: S	Move to folder	Folder			Directory
	PACE Suite (ID: II	Pamoua Dal	Folder			Directory
	PACE Suite (ID: D	Kemove Dei	Folder			Directory
	PACE Suite (ID: E	Go to IniFile table	Folder			Directory
	WindowsFolder		Folder			Directory
	🗉 🛅 security		Folder			Directory

• Update the necessary values such as file name, installation folder, file content and click Save.

General Permissions Image: Stable: 'IniFile' Name config.ini Image: Stable: 'IniFile' Target (installation) folder ProgramFilesFolder\PACE Suite (ID: INSTALLDIR) ProgramFilesFolder\PACE Suite (ID: INSTALLDIR) Browse Content IniFile Section Key Value Action Comport Ised156d93a64 1 State ID 4444 0 INI_confi # d5e7127585b24 1 State ID 4444 0 INI_confi # eIdf182ba3cc4c 2 DiscoveryMethod IPAddrORHostName 0 INI_confi # 4 0 INI_confi 4 422 0 INI_confi #	Properties				_	
MSI table: 'IniFile' Name config.ini Target (installation) folder ProgramFilesFolder\PACE Suite (ID: INSTALLDIR) Browse Content IniFile Section Key Value Action Comport Bed156d93a64 1 State ID 4444 0 INI_confi g48ecf55d9184c2 DiscoveryMethod IPAddrORHostName INI_confi _e1df182ba3cc4c2 IPAddrORHostName _e1df182ba3cc4c2 Discovery Single Device INI_confi _f43cad6313f74c2 State ID 422 0 INI_confi _f43cad6313f74c3 State ID 83 0 INI_confi Jin_confi			General	Permissions		
config.ini Target (installation) folder ProgramFilesFolder\PACE Suite (ID: INSTALLDIR) Browse Content IniFile Section Key Value Action Compor	MSI ta	able: 'Ir	niFile'			
Target (installation) folder ProgramFilesFolder\PACE Suite (ID: INSTALLDIR) Browse Content Browse IniFile Section Key Value Action Comport Bed156d93a64 1 State ID 4444 0 INI_conf	config.ini					
ProgramFilesFolder\PACE Suite (ID: INSTALLDIR) Browse Content IniFile Section Key Value Action Compor Bed156d93a64 1 State ID 4444 0 INI_conf d5e7127585b24 1 State Name CBlankDialogResizeState 0 INI_conf d48ecf55d9184c 2 DiscoveryMethod IPAddrORHostName 0 INI_confi e1df182ba3cc4c 2 IPAddrORHostName 172.27.236.52 0 INI_confi 4649bb7952ee 2 Discovery Single Device 0 INI_confi 6809d926c97a4 2 State ID 422 0 INI_confi f43cad6313f74c 2 State ID 83 0 INI_confi a47b8e2d9ee04 3 State ID 83 0 INI_confi	Target (installation) fo	der				
Content IniFile Section Key Value Action Compor Bed156d93a64 1 State ID 4444 0 INI_confi d5e7127585b24 1 State Name CBlankDialogResizeState 0 INI_confi 948ecf55d9184c 2 DiscoveryMethod IPAddrORHostName 0 INI_confi e1df182ba3cc4c 2 IPAddrORHostName 172.27.236.52 0 INI_confi 4649bb7952ee 2 Discovery Single Device 0 INI_confi _f43cad6313f74c 2 State ID 422 0 INI_confi _sa47b8e2d9ee04 3 State ID 83 0 INI_confi	ProgramFilesFolde	r\PACE Su	uite (ID: INSTALLDI	R)	В	rowse
IniFile Section Key Value Action Compor 	Content					
Imme Sector Rey Note Retor Compo Bed156d93a64 1 State ID 4444 0 INI_conf _d5e7127585b24 1 State Name CBlankDialogResizeState 0 INI_confi _948ecf55d9184c 2 DiscoveryMethod IPAddrORHostName 0 INI_confi _e1df182ba3cc4c 2 IPAddrORHostName 172.27.236.52 0 INI_confi _4649bb7952ee 2 Discovery Single Device 0 INI_confi _6809d926c97a4 2 State ID 422 0 INI_confi _f43cad6313f74c 2 State Name CNewPtrIDChoiceState 0 INI_confi _a47b8e2d9ee04 3 State ID 83 0 INI_confi	IniFile	Section	Kev	Value	Action	Compor
_d5e7127585b24 1 State Name CBlankDialogResizeState 0 INI_confi _948ecf55d9184c 2 DiscoveryMethod IPAddrORHostName 0 INI_confi _e1df182ba3cc4c 2 IPAddrORHostName 172.27.236.52 0 INI_confi _4649bb7952ee 2 Discovery Single Device 0 INI_confi _6809d926c97a4 2 State ID 422 0 INI_confi _f43cad6313f74c 2 State Name CNewPtrIDChoiceState 0 INI_confi _5a7e2652bb144 3 State ID 83 0 INI_confi _a47b8e2d9ee04 3 State Name CFirewallInfoState 0 INI_confi	8ed156d93a64	1	State ID	4444	0	INI confi *
948ecf55d9184c 2 DiscoveryMethod IPAddrORHostName 0 INI_confi e1df182ba3cc4c 2 IPAddrORHostName 172.27.236.52 0 INI_confi 4649bb7952ee 2 Discovery Single Device 0 INI_confi 6809d926c97a4 2 State ID 422 0 INI_confi f43cad6313f74c 2 State Name CNewPtrIDChoiceState 0 INI_confi 5a7e2652bb144 3 State ID 83 0 INI_confi a47b8e2d9ee04 3 State Name CFirewallInfoState 0 INI_confi a47b8e2d9ee04 3 State Name CFirewallInfoState 0 INI_confi	d5e7127585b24	1	State Name	CBlankDialogResizeState	0	INI confi
_e1df182ba3cc4c 2 IPAddrORHostName 172.27.236.52 0 INI_confi _4649bb7952ee 2 Discovery Single Device 0 INI_confi _6809d926c97a4 2 State ID 422 0 INI_confi _f43cad6313f74c 2 State Name CNewPtrIDChoiceState 0 INI_confi _5a7e2652bb144 3 State ID 83 0 INI_confi _a47b8e2d9ee04 3 State Name CFirewallInfoState 0 INI_confi		2	DiscoveryMethod	IPAddrORHostName	0	INI_confi
_4649bb7952ee 2 Discovery Single Device 0 INI_confi _6809d926c97a4 2 State ID 422 0 INI_confi _f43cad6313f74c 2 State Name CNewPtrIDChoiceState 0 INI_confi _5a7e2652bb144 3 State ID 83 0 INI_confi _a47b8e2d9ee04 3 State Name CFirewallInfoState 0 INI_confi	e1df182ba3cc4c	2	IPAddrORHostName	172.27.236.52	0	INI_confi
_6809d926c97a4 2 State ID 422 0 INI_confi _f43cad6313f74c 2 State Name CNewPtrIDChoiceState 0 INI_confi _5a7e2652bb144 3 State ID 83 0 INI_confi _a47b8e2d9ee04 3 State Name CFirewallInfoState 0 INI_confi		2	Discovery	Single Device	0	INI_confi
_f43cad6313f74c 2 State Name CNewPtrIDChoiceState 0 INI_confi _5a7e2652bb144 3 State ID 83 0 INI_confi _a47b8e2d9ee04 3 State Name CFirewallInfoState 0 INI_confi _	_6809d926c97a4	2	State ID	422	0	INI_confi
_5a7e2652bb144 3 State ID 83 0 INI_confi _a47b8e2d9ee04 3 State Name CFirewallInfoState 0 INI_confi <	_f43cad6313f74c	2	State Name	CNewPtrIDChoiceState	0	INI_confi
a47b8e2d9ee04 3 State Name CFirewallInfoState 0 INI_confi 🗸	_5a7e2652bb144	3	State ID	83	0	INI_confi
• • • • • • • • • • • • • • • • • • •	_a47b8e2d9ee04	3	State Name	CFirewallInfoState	0	INI_confi 🚽
	4					- F
	, i i i i i i i i i i i i i i i i i i i					
			Save	Cancel		
Save			Save	Cancer		



3.7.4.12 Edit File Properties

Edit a name, identifier, destination location, component and many other attributes of the file, saved to the File table.

• Go to the Package Designer -> Files and folders tab.

Files and folders Type Size Version MsI table Shortcuts Folder Folder Directory Custom actions DesktopFolder Folder Folder Directory Drivers Pockage configuration Folder Folder Directory Package configuration Features and components ProgramMenuFolder Folder Directory ARP appearance Oprades PACE Suite (ID: SHORTCUTLOCATION) Folder Directory PACES suite (ID: SHORTCUTLOCATION) Folder Directory Directory PACE Suite (ID: SHORTCUTLOCATION) Folder Directory Directory Propramines PACE Suite (ID: SHORTCUTLOCATION) Folder Directory PACE Suite (ID: SHORTCUTLOCATION) Folder Directory Directory PACE Suite (ID: SHORTCUTLOCATION) Folder Directory Directory PACE Suite (ID: SHORTCUTLOCATION) Folder Directory Directory PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Directory PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Directory	Package resources	Files and folders	426 files	(142,0 MB) 🝸	Collapse all	Show det
Shortcuts Folder Directory Registry DesktopFolder Folder Directory Custom actions ProgramFilesFolder Folder Directory Drivers ProgramFilesFolder Folder Directory Package configuration ProgramMenuFolder Folder Directory Quegrades ProgramMenuFolder Folder Directory Quegrades Properties WindowsFolder Folder Directory Summary information @ security Security Folder Directory Media settings Media settings Folder Directory Directory	Files and folders	Name	Туре	Size	Version	MSI table
Registry DesktopFolder Folder Directory Custom actions ProgramFilesFolder Folder Directory Package configuration ProgramMeur/Folder Folder Directory Features and components PACE Suite (ID: SHORTCUTLOCATION) Folder Directory ARP appearance PACE Suite (ID: SHORTCUTLOCATION) Folder Directory Oppractes PACE Suite (ID: CUSHORTCUTLOCATION) Folder Directory PACE Suite (ID: DOCUSHORTCUTLOCATION) Folder Directory Properties WindowsFolder Directory Directory Summary information Security Directory Media settings Media settings <t< td=""><td>Shortcuts</td><td>TARGETDIR</td><td>Folder</td><td></td><td></td><td>Directory</td></t<>	Shortcuts	TARGETDIR	Folder			Directory
Custom actions Image: ProgramFilesFolder Folder Directory Package configuration Image: ProgramMenuFolder Folder Directory Package configuration Image: ProgramMenuFolder Folder Directory Package configuration Packe Suite (ID: SHORTCUTLOCATION) Folder Directory Package configuration Packe Suite (ID: DOCUSHORTCUTLOCATION) Folder Directory Packe Suite (ID: DOCUSHORTCUTLOCATION) Folder Directory Properties Windowsfolder Folder Directory Summary information @ security Folder Directory Media settings Media settings Folder Directory	🗞 Registry	DesktopFolder	Folder			Directory
Image: Drivers Image: Drivers Folder Drivetory Package configuration ProgramMenuFolder Folder Drivetory Image: Progrimention Image: ProgramMenuFol	Custom actions	ProgramFilesFolder	Folder			Directory
Package configuration ProgramMenuFolder ProgramMenuFolder PACE Suite (ID: SHORTCUTLOCATION) PACE Suite (ID: SHORTCUTLOCATION) PACE Suite (ID: DOCUSHORTCUTLOCATION) PACE Suite (ID: DOTORSHORTCUTLOCATION) PACE Suite (🐓 Drivers	PACE Suite (ID: INSTALLDIR)	Folder			Directory
Features and components PACE Suite (ID: SHORTCUTLOCATION) Folder Directory ARP appearance PACE Suite (ID: CDCUSHORTCUTLOCATION) Folder Directory Upgrades PACE Suite (ID: EDTORSHORTCUTLOCATION) Folder Directory Properties WindowsFolder Folder Directory Summary information Image: Security Folder Directory	Package configuration	ProgramMenuFolder	Folder			Directory
ARP appearance PACE Suite (ID: InfopulseProgramMenuFolder) Folder Directory Organdes PACE Suite (ID: DOCUSHORTCUTLOCATION) Folder Directory Properties MindowsFolder Folder Directory Summary information Security Folder Directory		PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
Image: Constraint of the security PACE Suite (ID: DOCUSHORTCUTLOCATION) Folder Directory Image: Constraint of the security Pace Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Image: Constraint of the security Image: Constraint of the security Folder Directory Image: Constraint of the security Image: Constraint of the security Folder Directory		PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
Opfades PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Properties Windowsfolder Folder Directory Summary information Image: Security Folder Directory	ARF appearance	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
Properties Image: Constraint of the security Folder Directory Media settings Image: Constraint of the security Folder Directory	Upgrades	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
Summary information Image: Constraint of the security Folder Directory	Properties	WindowsFolder	Folder			Directory
Aedia settings	Summary information	security	Folder			Directory

Select Properties from the context menu of a file, properties of which you want to edit.
 MSI Editor - PACE_v5.0.msi

MSI Editor - PACE_v5.0.0.msi						- 0	×
■ MENU Package Summary	Package Designer Tables Editor						
🕶 🗁 Package resources	Files and folders		427 files	(142,0 MB)	Collapse all	Show deta	ails
Files and folders	Name		Туре	Size	Version	MSI table	-
Shortcuts	TARGETDIR		Folder			Directory	
🗞 Registry	DesktopFolder		Folder			Directory	
Custom actions	ProgramFilesFolder		Folder			Directory	
🗩 Drivers	PACE Suite (ID: INSTALLDIR)		Folder			Directory	
🛨 🗁 Package configuration	App-V Generator		Folder			Directory	
Eestures and components	🖃 🔜 Docu Generator		Folder			Directory	
	🗉 🔜 de-DE		Folder			Directory	
	🕀 🛄 en-US		Folder			Directory	
Opgrades	Templates		Folder			Directory	
Properties	Docu Generator.exe		EXE	109,5 KB	5.0.0.46	File	
Summary information	Docu Generator.exe.co		CONFIG	6,0 KB		File	
📥 Media settings	Docu-Generator.Com Import files		DLL	65,0 KB	5.0.0.46	File	
	Docu-Generator.Hook Properties	F2	DLL	95,0 KB	5.0.0.46	File	
	Docu-Generator.Local Set as INSTALLD	R	DLL	10,5 KB	5.0.0.46	File	
	Docu-Generator.Share Move to folder		DLL	72,0 KB	2.7.0.1	File	
	DocumentFormat.Ope Remove	Del	DLL	5,6 MB	2.8.1.15	File	
	Hardcodet.Wpf.Taskba		DLL	45,5 KB	1.0.3.0	File	
	HtmlAgilityPack.dll Go to File table		DLL	129,5 KB	1.4.9.5	File	
	ICSharpCode.SharpZipLib.dll		DLL	196,0 KB	0.86.0.518	File	
	Infopulse.PACE.LicenseChecking.dll		DLL	31,4 KB	4.5.0.0	File	_
	lonic.Zip.dll		DLL	451,5 KB	1.9.1.8	File	_
	🔚 log4net.dll 🔚 MarkupConverter.dll		DLL	282,0 KB	1.2.11.0	File	_
			DLL	71,5 KB	0.0.0	File	_
	Microsoft.Deployment.WindowsInstaller.dll		DLL	172,0 KB	3.11.0.705	File	
	Microsoft.Expression.Interactions.dll		DLL	89,5 KB	2.0.20525.0	File	Ŧ
	Add 🔺 Remove						



 Update the necessary values such as file name, installation folder, attributes and so on. Afterwards, click Save.

Properties – General Permissions Image: Constrained state Permissions MSI table: 'File' Identifier Name Identifier Docu Generator.exe Docu_Generator.exe	2
General Permissions MSI table: 'File' Name Docu Generator.exe Target (installation) folder	2
MSI table: 'File' Name Docu Generator.exe Target (installation) folder	2
Name Identifier Docu Generator.exe Docu_Generator.exe	2
Docu Generator.exe Docu_Generator.exe	2
Target (installation) folder	
Target (installation) folder	
ProgramFilesFolder\PACE Suite\Docu Generator (ID: DOCUINSTALLDIR) Br	owse
Source (get from) path	
SourceDir\Program Files\PACE Suite\Docu Generator	
Component_ Sequence number	
Docu_Generator.exe	
Size (in bytes) Version Language	
112128 5.0.0.46 0	~
Retrieve file details (Size, Version, Language) by source path	
Attributes	
Read-Only Vital Override compres	sion type
□ Hidden □ Checksum ◎ Compress this	file in CAB
□ System □ Added by Patch □ Do not compre	ess this file
Save Cancel	



3.7.4.13 Edit Folder Properties

Edit a folder target and source names, identifier, and its parent folder.

• Go to the Package Designer -> Files and folders tab.

Package resources	Files and folders	426 file	s (142,0 MB) 🔽	Collapse all	Show det
Files and folders	Name	Туре	Size	Version	MSI table
Shortcuts	TARGETDIR	Folder			Directory
🗞 Registry	DesktopFolder	Folder			Directory
Custom actions	ProgramFilesFolder	Folder			Directory
🐓 Drivers	PACE Suite (ID: INSTALLDIR)	Folder			Directory
Package configuration	ProgramMenuFolder	Folder			Directory
Features and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
opgrades	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
Properties	WindowsFolder	Folder			Directory
Summary information	🕀 🛅 security	Folder			Directory

Select Properties from the context menu of a folder, properties of which you want to edit.
 MSI Editor - PACE_v5.00.msi

MSI Editor - PACE_v5.0.0.msi							- 🗆 X
■ MENU Package Summary	Package Designer Tables Edito	pr					
✓ Package resources	Files and folders			426 file	s (142,0 MB)	Collapse all	Show details
Files and folders	Name			Туре	Size	Version	MSI table
Shortcuts	TARGETDIR			Folder			Directory
🗞 Registry	DesktopFolder			Folder			Directory
Custom actions	ProgramFilesFolder			Folder			Directory
🗩 Drivers	PACE Suite (ID: INSTALLDIR)			Folder			Directory
🕶 🗁 Package configuration	App-V Generator	New subfolder		Folder			Directory
Eestures and components	🗉 📗 Docu Generator	Import files		Folder			Directory
	MSI Editor (ID: EDITORINS	Properties	F2	Folder			Directory
	MSI Editor (ID: MSIEDITOR	Set as INISTALL DIR		Folder			Directory
Departies	MSI Generator (ID: MSIGE	Move to folder		Folder			Directory
Properties	MSI Generator (ID: MSIGE	Remove to tolder	Dal	Folder			Directory
Summary information	🕀 🖿 Prerequisites	Remove	Der	Folder			Directory
📥 Media settings	EULA.rtf	RTF	119,8 KB		File		
	Release notes.pdf	PDF	1,1 MB		File		
	Release notes.xps				1,2 MB		File
	ProgramMenuFolder			Folder			Directory
	PACE Suite (ID: SHORTCUTLOCATION)			Folder			Directory
	PACE Suite (ID: InfopulseProgramMenuFolder)			Folder			Directory
	PACE Suite (ID: DOCUSHORTCUTLOCATION)			Folder			Directory
	PACE Suite (ID: EDITORSHORTCUTLOCATION)			Folder			Directory
	WindowsFolder			Folder			Directory
	security			Folder			Directory
	Add • Remove						



• Update the necessary values such as folder target and source names, its parent and so on. Afterwards, click Save.

THE WORDS, CHER.	Juve.						
Properties					_		Х
	General	Operation	ns Pe	rmissions			
MSI t	able: 'Direc	tory'					
Name				Identifier			
PACE Suite				INSTALLD	DIR		
Source name							
PACE Suite							
Set custom sou	rce name						
Parent folder							
ProgramFilesFold	er (ID: Programf	FilesFolder)				Browse	
Make this folder ro	oot						
		-					
		Save	Cancel				

For saving your package, select Save from the MENU.
 MSI Editor - PACE v5.0.0.msi

■ MENU Package Summary	Package Designer	Tables Editor	
New MSI	Ctrl + N	Complexity estimation	
Open	Ctrl + O	complexity connected	
Open recent	•		
Apply MST to MSI			
Remove MST from MSI			
Save	Ctrl + S		
Save as			
Create MSP against original MSI	.		- 2
Generate package report		Complexity level:	- 2
Deploy to SCCM		Medium	
Active scripting			
Compare packages			
Edit	•		
Import and export	*		
Validation			
Help			
Quit	Alt + F4	Pocalculato Evacet results to file	

3.7.5 Shortcuts

Choose a scenario that better suits your needs:

- Add Shortcut, described in section 3.7.5.1 Add a regular or an advertised shortcut that points to a file, folder or URL.
- Import Shortcuts, described in section 3.7.5.2 Import shortcuts from the file system to the package.
- Move Shortcut, described in section 3.7.5.3 Move a shortcut to another folder.
- Edit Shortcut Properties, described in section 3.7.5.4 Edit shortcut details such as icon, name, installation folder, shortcut type, arguments, description and the like.

3.7.5.1 Add Shortcut

Add a regular or an advertised shortcut that points to a file, folder or URL.

• Go to the Package Designer -> Shortcuts tab.

2	Shortcuts			8 shortcuts 💙 Collapse all	Show deta
Files and folders	Name	Тур)e	Target	MSI table
Shortcuts	TARGETDIR	Fol	der		Directory
🗞 Registry	DesktopFolder	Fol	der		Directory
Custom actions	Docu Generator.ink	Ad	vertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
💉 Drivers	MSI Editor.Ink	Ad	vertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor)	Shortcut
Package configuration	MSI Generator.ink	Ad	vertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut
Eestures and components	ProgramFilesFolder	Fol	der		Directory
	ProgramMenuFolder	Fol	der		Directory
	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Fol	der		Directory
Upgrades	Docu Generator.Ink	Ad	vertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
Properties	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Fol	der		Directory
Summary information	MSI Editor.Ink	Ad	vertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor)	Shortcut
🚔 Media settings	PACE Suite (ID: InfopulseProgramMenuFolder)	Fol	der		Directory
	🎌 Release Notes.Ink	Ad	vertised shortcut	PaceManual (ProgramFilesFolder\PACE Suite\Release)	Shortcut
	🎌 User Manual.Ink	Reg	gular shortcut	[MANUALURL]	Shortcut
	PACE Suite (ID: SHORTCUTLOCATION)	Fol	der		Directory
	MSI Generator.Ink	Ad	vertised shortcut	$MsiGenerator \ (ProgramFilesFolder \ PACE \ Suite \ MSI \ Ge$	Shortcut
	WindowsFolder	Fol	der		Directory

 Select New shortcut from the context menu of a folder, where you want to create a shortcut. NOTE To add the missing system folders (e.g. DesktopFolder, ProgramMenuFolder) or subfolders, select Add -> System folders or Add -> Subfolder respectively from the toolbox





menu. Also, ensure that the Hide folders without shortucts filter is not applied.

MSI Editor - PACE_v5.0.0.msi					- 🗆 X
■ MENU Package Summary	Package Designer Tables Ed	ditor			
🕶 🛅 Package resources	Shortcuts			8 shortcuts 💙 Collapse all	Show details
Files and folders	Name		Туре	Target	MSI table
Shortcuts	TARGETDIR		Folder		Directory
🗞 Registry	DesktopFolder		Folder		Directory
<>> Custom actions	Docu Gener Import sl	nortcuts ()	Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
🗩 Drivers	SI Editor.Ir New sho	rtcut	Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor\	Shortcut
🕶 🗁 Package configuration	MSI General New sub	folder	Advertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut
Eestures and components	ProgramFilesFol	иг. E2	Folder		Directory
	ProgramMenuFe	5 FZ	Folder		Directory
	PACE Suite	Del	Folder		Directory
Opgrades	Docu Ge Remove	Dei	Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
Properties	🖃 🛄 PACE Suite 🛛 Go to Dir	rectory table	Folder		Directory
Summary information	MSI Editor.Ink		Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor)	Shortcut
📥 Media settings	PACE Suite (ID: InfopulsePr	ogramMenuFolder)	Folder		Directory
	🎌 Release Notes.Ink		Advertised shortcut	PaceManual (ProgramFilesFolder\PACE Suite\Release	Shortcut
	🎌 User Manual.Ink		Regular shortcut	[MANUALURL]	Shortcut
	PACE Suite (ID: SHORTCUT	LOCATION)	Folder		Directory
	MSI Generator.ink		Advertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut
	WindowsFolder		Folder		Directory
	Add • Remove				

• Select a type of the shortcut target and click Next.

(The following steps describe creation of the shortcut of the 'File from the package' type.)

le Add shortcut					_		×
	•						
	Туре	Target	Appearance				
Target type							
 File from the package An advertised or regular (non- 	-advertised) sho	rtcut that point	s to a file of the pac	kage.			
 File on the system A regular (non-advertised) sho 	ortcut that point:	s to a file on th	e target system.				
 Folder from the package A regular (non-advertised) sho 	ortcut that point:	s to a folder of	the package.				
 Folder on the system A regular (non-advertised) sho 	ortcut that point:	s to a folder on	the target system.				
O URL An internet shortcut that oper	ns the specified l	JRL.					
				Next >	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cancel	



• Click Browse, located next to the Shorcut target field, to select a target of the shortcut

Add shortcut					— 🗆	×
						
	Туре	Target	Appearance			
Target						
hortcut target						
				0	Browse	
rguments						
Start in (MUDir)						
Folder						~
				0	Browse	
hortcut type						
Advertised shortcut						
) Regular (non-advertised) shortcut						
			/ Bock	Novt)	Cance	J



• Choose a file, for which this shortcut will be created, and click Select.

Select a file		×
Name		
TARGETDIR		
DesktopFolder		
ProgramFilesFolder		
🖃 🔛 PACE Suite		
App-V Generator		
🗉 🔜 Docu Generator		
🗉 🔜 MSI Editor		
🗉 🔚 MSI Editor		
🗉 🔚 MSI Generator		
🕀 📕 MSI Generator		
Prerequisites		
Release notes.pdf		
Release notes.xps		
EULA.rtf		
ProgramMenuFolder		
PACE Suite		
WindowsFolder		
database		
templates		
▼ Select Cancel		



• If needed, specify a shortcut Arguments, change the Start in path (select a folder or a property), and select a Shortcut type.

NOTE Only Advertised shortcuts support advertisement and repair, which allow to restore the missing files automatically on the shortcut launch. Then, click Next.

Type Target Appearance	
Type Target Appearance	
Type Target Appearance	
Target	
Shortcut target	
ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release_notes.pdf) Browse	
Arguments	_
Start in (WkDir)	
Folder	1
ProgramFilesFolder\PACE Suite (ID: INSTALLDIR) Browse	
Shortcut type	
Advertised shortcut Regular (see advertised) shortcut	
C Regular (non-advertised) shortcut	
K Back Next > Cancel	



• On the last step, enter a Shortcut name, choose a shortcut icon and, if needed, specify the shortcut Description, Hot key and Run options. Click Finish to add the shortcut.

					X
					
Туре	Target	Appearance			
ument					
					~
		K Back Fin	nish	Cance	1
	Type	Type Target	Type Target Appearance	Type Target Appearance	Type Target Appearance



3.7.5.2 Import Shortcuts

Import shortcuts from the file system to the package.

• Go to the Package Designer -> Shortcuts tab.

N				8 shortcuts V Collapse all	5110 10 10
Files and folders	Name		Туре	Target	MSI table
Shortcuts	TARGETDIR		Folder		Directory
Registry	DesktopFolder		Folder		Directory
Custom actions	Docu Generator.Ink	0	Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
Drivers	MSI Editor.Ink		Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor\	Shortcut
Package configuration	MSI Generator.ink		Advertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut
Features and components	ProgramFilesFolder		Folder		Directory
	ProgramMenuFolder		Folder		Directory
	PACE Suite (ID: DOCUSHORTCUTLOCATION)		Folder		Directory
Upgrades	Docu Generator.Ink		Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
Properties	PACE Suite (ID: EDITORSHORTCUTLOCATION)		Folder		Directory
Summary information	MSI Editor.Ink		Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor)	Shortcut
Media settings	PACE Suite (ID: InfopulseProgramMenuFolder)		Folder		Directory
	📜 Release Notes.Ink		Advertised shortcut	PaceManual (ProgramFilesFolder\PACE Suite\Release)	Shortcut
	📜 User Manual.Ink	•	Regular shortcut	[MANUALURL]	Shortcut
	PACE Suite (ID: SHORTCUTLOCATION)		Folder		Directory
	MSI Generator.Ink		Advertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut
	WindowsFolder		Folder		Directory

• Select **Import shortcuts** from the context menu of a folder, to which you want to import shortcuts from the file system.

NOTE To add the missing system folders (e.g. DesktopFolder, ProgramMenuFolder) or subfolders, select Add -> System folders or Add -> Subfolder respectively from the toolbox menu. Also, ensure that the Hide folders without shortucts filter is not applied.

B MSI Editor - PACE_v5.0.0.msi						– 🗆 🗙
	Package Designer	Tables Editor				
🕶 🛅 Package resources	Shortcuts				8 shortcuts 🔽 Collapse all	Show details
Files and folders	Name			Туре	Target	MSI table
Shortcuts	TARGETDIR			Folder		Directory
🗞 Registry	DesktopFolder			Folder		Directory
Custom actions	📵 Docu Gener	Import shortcuts	0	Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
💉 Drivers	MSI Editor.lr	New shortcut		Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor)	Shortcut
 Package configuration 	MSI Generat	New subfolder		Advertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut
Eeatures and components	ProgramFilesFol	Properties E2		Folder		Directory
	ProgramMenuFe	Move to folder		Folder		Directory
	🖃 🔛 PACE Suite	Remove to folder		Folder		Directory
Properties	Docu Ge			Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
	PACE Suite	Go to Directory table		Folder		Directory
Summary Information	MSI Edito	r.ink		Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor\	Shortcut
Media settings	PACE Suite (IE	D: InfopulseProgramMenuFolder)		Folder		Directory
	C Release N	otes.Ink		Advertised shortcut	PaceManual (ProgramFilesFolder\PACE Suite\Release	Shortcut
	C User Man	ual.ink	U	Regular shortcut	[MANUALURL]	Shortcut
	PACE Suite (II	D: SHORTCUTLOCATION)		Folder		Directory
	MSI Gene	rator.ink		Advertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut
	WindowsFolder			Folder		Directory
	Add 🔺 Rem	love				



• Choose shortcuts you would like to import and click Open.







3.7.5.3 Move Shortcut

Move a shortcut to another folder.

• Go to the Package Designer -> Shortcuts tab.

Package resources	Snortcuts			8 shortcuts V Collapse all	Show det
Files and folders	Name		Туре	Target	MSI table
Shortcuts	TARGETDIR		Folder		Directory
🗞 Registry	DesktopFolder		Folder		Directory
Custom actions	Docu Generator.Ink	•	Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
🖌 Drivers	MSI Editor.Ink		Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor)	Shortcut
Package configuration	MSI Generator.Ink		Advertised shortcut	$MsiGenerator \ (ProgramFilesFolder\PACE \ Suite\MSI \ Ge$	Shortcut
Features and components	ProgramFilesFolder		Folder		Directory
	ProgramMenuFolder		Folder		Directory
Upgradas	PACE Suite (ID: DOCUSHORTCUTLOCATION)		Folder		Directory
Dreparties	🔘 Docu Generator.Ink		Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
Properties	PACE Suite (ID: EDITORSHORTCUTLOCATION)		Folder		Directory
Summary information	MSI Editor.Ink		Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor)	Shortcut
🚽 Media settings	PACE Suite (ID: InfopulseProgramMenuFolder)		Folder		Directory
	C Release Notes.Ink	-	Advertised shortcut	PaceManual (ProgramFilesFolder\PACE Suite\Release	Shortcut
	User Manual.Ink	U	Regular shortcut	[MANUALURL]	Shortcut
	PACE Suite (ID: SHORTCUTLOCATION)		Folder		Directory
	MSI Generator.ink		Advertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut
	WindowsFolder		Folder		Directory

• Select Move to folder from the context menu of a shortcut, which you want to move to another folder.

Package resources	Shortcuts					8 shortcuts 💙 Collapse all	Show details
Files and folders	Name			Туре	Target	MSI table	
Shortcuts	TARGETDIR DesktopFolder Docu Generator.Ink MSI Editor.Ink MSI Generator.Ink			Folder		Directory	
🗞 Registry				Folder		Directory	
> Custom actions				Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut	
👉 Drivers				Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor)	Shortcut	
Package configuration				Advertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut	
	ProgramFilesFolder			Folder		Directory	
Peatures and components	ProgramMenuFolder			Folder		Directory	
ARP appearance	PACE Suite (ID: DOCUSHORTCUTLOCATION)			Folder		Directory	
Upgrades	🔞 Docu Generator.Ink			Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut	
Properties	Properties PACE Suite (ID: EDITORSHORTCUTLOCATION)				Folder		Directory
Summary information	MSI Editor.Ink	Editor.Ink			Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor)	Shortcut
🚍 Media settings	PACE Suite (ID: InfopulseProgramMenuFolder)			Folder		Directory	
	🎌 Release Notes.Ink				Advertised shortcut	PaceManual (ProgramFilesFolder\PACE Suite\Release)	Shortcut
	🏌 User Manual.Ink	Import shortcuts New shortcut New subfolder		0	Regular shortcut	[MANUALURL]	Shortcut
	PACE Suite (ID: SHORT)				Folder		Directory
	MSI Generator.Ink				Advertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut
	WindowsFolder	Properties	F2		Folder		Directory
		Move to folder					
		Remove	Del				
		Go to Shortcut table					



• Select a new destination folder from the tree and click Select.

Select a folder	×
Name	
TARGETDIR	
DesktopFolder	
ProgramFilesFolder	
E PACE Suite	
App-V Generator	
🖃 🔚 Docu Generator	
de-DE	
en-US	
Templates	
MSI Editor	
🖃 🔤 MSI Editor	
ActiveScripting	
Scripts	
Docs	
DocTemplates	
en-US	
🖃 🔤 ExternalTools	
PatchCreation	
PatchTool	
🖃 🛄 QualityAssistant	
🖃 📕 Projects	
checklists	
SccmPublishScript	
IconDII	
	Ŧ
Y Select Cancel	





3.7.5.4 Edit Shortcut Properties

Edit shortcut details such as icon, name, installation folder, shortcut type, arguments, description and the like.

• Go to the Package Designer -> Shortcuts tab.

Package resources	Shortcuts			8 shortcuts V Collapse all	Show deta
Files and folders	Name		Туре	Target	MSI table
Shortcuts	TARGETDIR		Folder		Directory
🗞 Registry	DesktopFolder		Folder		Directory
Custom actions	Docu Generator.Ink		Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
 Privers Package configuration Features and components ARP appearance Upgrades Properties Summary information Media settings 			Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor)	Shortcut
	MSI Generator.ink		Advertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut
	ProgramFilesFolder		Folder		Directory
	ProgramMenuFolder		Folder		Directory
	PACE Suite (ID: DOCUSHORTCUTLOCATION)		Folder		Directory
	Docu Generator.Ink		Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
	PACE Suite (ID: EDITORSHORTCUTLOCATION)		Folder		Directory
	MSI Editor.Ink		Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor)	Shortcut
	PACE Suite (ID: InfopulseProgramMenuFolder)		Folder		Directory
	🎌 Release Notes.Ink		Advertised shortcut	PaceManual (ProgramFilesFolder\PACE Suite\Release)	Shortcut
	💏 User Manual.ink	•	Regular shortcut	[MANUALURL]	Shortcut
	PACE Suite (ID: SHORTCUTLOCATION)		Folder		Directory
	MSI Generator.Ink		Advertised shortcut	$MsiGenerator \ (ProgramFilesFolder \ PACE \ Suite \ MSI \ Ge$	Shortcut
	WindowsFolder		Folder		Directory

Select Properties from the context menu of a shortcut, details of which you want to edit.
 MSI Editor - PACE_v5.00.msi

	Package Designer	fables Editor					
🕶 🖿 Package resources	Shortcuts				8 shortcuts	Collapse all	Show details
Files and folders	Name			Туре	Target		MSI table
Shortcuts	TARGETDIR			Folder			Directory
🗞 Registry	DesktopFolder			Folder			Directory
Custom actions	Docu Generator.Ink			Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu		Shortcut
💉 Drivers	MSI Editor.Ink			Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor)		Shortcut
Package configuration	MSI Generator.	Import shortcuts		Advertised shortcut	Advertised shortcut MsiGenerator (ProgramFilesFolder\PACE Suite\MS		Shortcut
Eestures and components	ProgramFilesFolder	ProgramFilesFolder New shortcut		Folder			Directory
	ProgramMenuFolde	New subfolder		Folder			Directory
	PACE Suite (ID:	Properties E2	,	Folder			Directory
Opgrades	😥 Docu Gener	Move to folder	·	Advertised shortcut	DocuGenerator (ProgramFilesFolder)	PACE Suite\Docu	Shortcut
Properties	PACE Suite (ID:	Nove to loider		Folder			Directory
Summary information	MSI Editor.I	Remove D		Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE	Suite\MSI Editor\	Shortcut
📥 Media settings	PACE Suite (ID:	Go to Shortcut table		Folder			Directory
	📜 Release Notes.ink			Advertised shortcut	PaceManual (ProgramFilesFolder\PACE Suite\Release)		Shortcut
🎌 User Manual.ink 🌐 🌖			•	Regular shortcut	[MANUALURL]		Shortcut
	PACE Suite (ID: S	PACE Suite (ID: SHORTCUTLOCATION)					Directory
SI Generator.ink			Advertised shortcut	MsiGenerator (ProgramFilesFolder\P	ACE Suite\MSI Ge	Shortcut	
	WindowsFolder			Folder			Directory
	Add • Remov	e					


• Update the necessary values such as icon, shortcut name, installation folder, type, arguments, description, hot key and so on. Afterwards, click Save.

Properties			_		>
MSI table: 'Shortcut'					
Name	Identifie	r			
MSI Editor	MsiEd	itor.exe_	short	cut_desk	top
Target (installation) folder					
DesktopFolder (ID: DesktopFolder)				Browse	
General Shortcut type Advertised shortcut C Regular (non-advertised) shortcut					
Shortcut target					
MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor\MsiE	ditor.exe	2)		Browse	
Arguments					
Start in (WkDir)					
Folder					~
ProgramFilesFolder\PACE Suite\MSI Editor (ID: EDITORINS')		Browse	
Details	Pup				
MsiEditorexe	Norm	al windo	W/		~
Description	Hotkor	ur wind()			
MSI Editoreve	пот кеу				
WDF Editor.exe					
Save Cancel	1				
Carte					



Save

Edit

Help Quit

For saving your package, select Save from the MENU. •







3.7.6 Registry

Choose a scenario that better suits your needs:

- Add Registry Key, described in section 3.7.6.1 Add a new registry key or sub-key manually.
- Add Registry Value, described in section 3.7.6.2 Add a new registry value manually.
- Add ActiveSetup, described in section 3.7.6.2.1 Intergrate ActiveSetup into your package to propagate the per-user resources for every logged-in user of the system.
- Add Value/Key Removal, described in section 3.7.6.3 Add the RemoveRegistry to force a registry value or key removal on install.
- Import Registry, described in section 3.7.6.4 Import registry from the REG file.
- Export Registry, described in section 3.7.6.5 Export the selected registry to the REG file.
- Set Permissions, described in section 3.7.6.6 Set custom permissions for the registry key.
- Remove Permissions, described in section 3.7.6.7 Locate registry key with custom permissions and remove the unnecessary permissions.
- Move Value, Key, described in section 3.7.6.8 Move a registry value or a key from one parent key to another one.
- Edit Registry Key, described in section 3.7.6.9 Modify details and options of the selected registry key.
- Edit Registry Value, described in section 3.7.6.10 Modify details of the selected registry value.
- Edit Value/Key Removal, described in section 3.7.6.11 Modify details of the selected value/key removal item (RemoveRegistry) to secure a value or a key removal during the package installation.





3.7.6.1 Add Registry Key

Add a new registry key or sub-key manually.

• Go to the Package Designer -> Registry tab.

N			55 Values V	
Files and folders	Name	Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined by installation type (Root: -1)	System hive		
Registry	HKEY_CLASSES_ROOT (Root: 0)	System hive		
Custom actions	.appv	Key		
' Drivers	🗈 🔜 .dscn	Key		
Package configuration	🕀 🛄 .mgp	Key		
	🗉 🔜 .msm	Key		
APP appearance	🗉 🚞 .mst	Key		
	🗉 🛄 .wsi	Key		
Properties	AppV	Key		
	Infopulse.DscnFile	Key		
Summary information	Msi.MergeModule	Key		
Media settings	Msi.Package	Key		
	Msi.Patch	Key		
	Msi.Transform	Key		
	MSIGeneratorProject	Key		
	WisePackageStudioProject	Key		
	HKEY_CURRENT_USER (Root: 1)	System hive		
	Software	Key		
	HKEY_LOCAL_MACHINE (Root: 2)	System hive		
	SOFTWARE	Key		
	HKEY USERS (Root: 3)	System hive		

• Select New key from the context menu of a root hive or a key, where you want to create a new registry key.

MSI Editor - PACE_v5.0.0.msi					- 🗆 ×
■ MENU Package Summary	Package Designer	Tables Editor			
🕶 🛅 Package resources	Registry			53 values 💙 Collap	se all Show details
Files and folders	Name		Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined	by installation type (Root: -1)	System hive		
🗞 Registry		Root: 0)	System hive		
Custom actions	.appv		Key		
🗩 Drivers	🗉 🔜 .dscn		Key		
 Package configuration 	🕀 🛄 .mgp		Key		
Eestures and components	🗉 🛄 .msm		Key		
	🕀 🛄 .mst		Key		
	🗉 🛄 .wsi		Key		
Opgrades	🕀 🔚 AppV		Key		
	Infopulse.DscnFile	luce at a state of	Key		
Summary information	Defaulticon	Import registry	Key		
🖂 Media settings	shell	Export registry	Key		
	🗞 (Default)	New key	String value	Docu Generator scenario	DOCUContextMenu
	🗞 (Default)	New value	String value	Docu Generator scenario	DOCUFileAssotiatic
	Msi.MergeModule	New value/kev removal	Key		
	Msi.Package		Key		
	Msi.Patch	Properties F2	Key		
	Msi.Transform	Move to	Key		
	MSIGeneratorProje	Remove Del	Key		
	WisePackageStudic	Go to Registry table	Key		
	HKEY_CURRENT_USER	Go to Component table	System hive		
	Software	Go to component table	Key		
	HKEY_LOCAL_MACHINE	(Root: 2)	System hive		
	SOFTWARE		Key		
	MKEY_USERS (Root: 3)		System hive		
	Add 🔺 Remo	/e			



• Enter a key name, select a component from the list, then click Add. For creating a new component, go to the Features and Components tab of the Package Designer.

Add key	×
Кеу	-
Test	
Component_	
cmp8BEC1A678BEF51F3C3615ABCC4F9C7D4	·]
value will be added to the specified key. Parent key	
Infopulse.DscnFile	
Root	
HKEY_CLASSES_ROOT (0)	
Add Cancel	

For saving your package, select Save from the MENU.
 MSI Editor - PACE v5.0.0.msi

MENU Package Summary	Package Designer	Tables Editor	
w MSI	Ctrl + N		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
w MST		Cor	nplexity estimation
en	Ctrl + O		
recent	•		
y MST to MSI			
nove MST from MSI			
e	Ctrl + S		
e as			
ate MSP against original MSI			
erate package report			Complexity level:
oloy to SCCM			Medium
tive scripting			
ompare packages			
t	•		
port and export	•		
idation	•		
p	•		
	Alt + F4		



3.7.6.2 Add Registry Value

Add a new registry value manually.

• Go to the Package Designer -> Registry tab.

	Registry		53 values V Collar	ose all Show de
Files and folders	Name	Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined by installation type (Root: -1)	System hive		
🗞 Registry	HKEY_CLASSES_ROOT (Root: 0)	System hive		
Custom actions	🗈 🛅 .appv	Key		
🖌 Drivers	🕀 🛅 .dscn	Key		
Package configuration	🕀 🔤 .mgp	Key		
Features and components	🕢 🖿 💼 .msm	Key		
	🕢 📰 .mst	Key		
	🗉 🛄 .wsi	Key		
opgrades	🕀 🖿 AppV	Key		
Properties	🗉 🔚 Infopulse.DscnFile	Key		
Summary information	Msi.MergeModule	Key		
Media settings	🕀 🔚 Msi.Package	Key		
	🕀 🔚 Msi.Patch	Key		
	Msi.Transform	Key		
	MSIGeneratorProject	Key		
	WisePackageStudioProject	Key		
	HKEY_CURRENT_USER (Root: 1)	System hive		
	Software	Key		
	HKEY_LOCAL_MACHINE (Root: 2)	System hive		
	SOFTWARE	Key		
	HKEY_USERS (Root: 3)	System hive		

• Select New value from the context menu of a key, where you want to create a new registry value.

MSI Editor - PACE_v5.0.0.msi						– 🗆 X
MENU Package Summary	Package Designer	Tables Editor				
🕶 🗁 Package resources	Registry				53 values 💙 Collaps	e all Show details
Files and folders	Name			Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined	by installation type (Root: -1)		System hive		
🗞 Registry	HKEY_CLASSES_ROOT (Root: 0)			System hive		
> Custom actions	.appv			Key		
🗩 Drivers	🕀 🚞 .dscn			Key		
🕶 🗁 Package configuration	🗉 🛄 .mgp		Image: Second			
Eestures and components	🗉 🛄 .msm			Key		
	🕀 🛄 .mst			Key		
C Upgrader	🗉 🔜 .wsi			Key		
	🕀 🛄 AppV			Key		
Properties	Infopulse.DscnFile	lana ant an ainte a		Key		
Summary Information	Defaulticon	Import registry		Key		
🖂 Media settings	🕀 🔛 shell	Export registry		Key		
	🗞 (Default)	New key		String value	Docu Generator scenario	DOCUContextMeni
	💑 (Default)	New value		String value	Docu Generator scenario	DOCUFileAssotiatic
	Msi.MergeModule	Y_CU/LM - Defined by installation type (Root: -1) Y_CLASSES_ROOT (Root: 0) .appv .dscn .mgp .msm .mst .wsi AppV Infopulse.DscnFile Defaulticon Infopulse.DscnFile In		Key		
	Msi.Package		-	Key		
	Msi.Patch	Properties F	-2	Key		
	Msi. Iransform	Move to		Key		
	MisePreteratorProje	Remove E	Del	Key		
		Go to Registry table		Key Gustasa biya		
		Go to Component table		System nive		
		(Poot: 2)		Sustam bivo		
		(nood b)		Key		
	HKEY_USERS (Root: 3)			System hive		
	Add 🔺 Remov	/e				



• For creating an ordinary registry value, just specify a Name, Value itself, select a Component from the list, to which this value will be assigned, and then click Save.

For creating a Default key value, or securing an empty key creation on install and/or its removal on uninstall, select a respective option from the Value processing method field.

The **Parsed value** option serves easier creation of a registry value of the proper value type. However, the **Raw MSI value** option gives ability to manage what exactly will be saved to the opened MSI database.

Properties				_		>
MSI table:	'Registry'					
Value processing method						
1. Set both hame and value	=					
Name			Identifier			
Test			reg_08a3c81	a		
Value Parsed value Type						
String value (REG_SZ)						~
Value						
Test						
O Raw MSI value						
Test						
Key						
Infopulse.DscnFile					Browse.	
Root						
HKEY_CLASSES_ROOT (0)						~
Component_						
cmp8BEC1A678BEF51F3C3	615ABCC4F9C7D4	Ļ				~
	Save	Cance	I			



• For saving your package, select **Save** from the **MENU**.



3.7.6.2.1Add ActiveSetup

Intergrate ActiveSetup into your package to propagate the per-user resources for every logged-in user of the system. The ActiveSetup is represented as the registry value that triggers the repair function of the Windows Installer during the next user log-in in order to restore the missing resources.

(Optional) First, create a new component for the ActiveSetup registry key. Alternatively, you can use the existing component with the per-machine resources. To create a component, go to the Package Designer -> Features and components tab.

MENU Package Summar	y Package Designer Tables Editor		
Package resources	Features and components		🔠 🎽 💙 Collapse all Show deta
Files and folders	Name	Туре	KeyPath
📌 Shortcuts	Docu Generator Core (ID: DocuGenerator)	Feature (Install, Visible and o	
🗞 Registry	Docu_Generator.Common.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Docu-Genera
Custom actions	🗄 🔛 Docu_Generator.exe	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Docu Genera
🐓 Drivers	🕀 🄛 Docu_Generator.Hook.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Docu-Genera
Package configuration	🕀 🄛 Docu_Generator.Localization.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Docu-Genera
Features and components	🕀 🄛 Docu_Generator.resources.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\en-US\Docu
 reatures and components 	🕀 🄛 Docu_Generator.resourcesDE.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\de-DE\Docu
AKP appearance	🕀 🄛 Docu_Generator.SharedResources.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Docu-Generator
Upgrades	🕀 🄛 Docu_PACE.Common.Adapters.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Comm
Properties	🕀 🄛 Docu_PACE.Common.Configuration.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Comm
Summary information	🕀 🄛 Docu_PACE.Common.Logging.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Comm
Media settings	🕀 🄛 Docu_PACE.Common.UI.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Comm
	🕀 🄛 Docu_PACE.Common.UIStyles.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Comm
	🕀 🄛 DOCUContextMenu	Component (Conditions)	TARGETDIR (ID: TARGETDIR)
	🕀 🄛 DOCUFileAssotiation	Component (Conditions)	TARGETDIR (ID: TARGETDIR)
	🕀 🄛 DocumentFormat.OpenXml.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\DocumentFo
	🕀 🄛 DOCUSystem.Windows.Interactivity.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\System.Wind
	🕀 🄛 Hardcodet.Wpf.TaskbarNotification.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Hardcodet.W
	🕀 🄛 HtmlAgilityPack.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\HtmlAgilityP
	🕀 🄛 ICSharpCode.SharpZipLib.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\ICSharpCode
	🕀 🄛 Infopulse.PACE.LicenseChecking.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Infopulse.PA
	🕀 🔛 Ionic.Zip.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Ionic.Zip.dll
	🕀 🔛 log4net.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\log4net.dll (
	🕀 🄛 MarkupConverter.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\MarkupConv
	🗉 🔛 Microsoft.Deployment.WindowsInstaller.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Microsoft.De

• (Optional) Select New component from the context menu of any feature. It is recommended to use feature that always will be installed and contains per-machine resources (e.g. Complete).

MSI Editor - PACE_v5.0.0.msi				– 🗆 X
■ MENU Package Summary	Package Designer	Tables Editor		
🕶 🖿 Package resources	Features and co	mponents		🔠 🐸 🟹 Collapse all Show details
Files and folders	Name		Туре	KeyPath 🔺
reference to the second	🖃 🔡 Docu Generator Co	re (ID: DocuGenerator)	Feature (Install, Visible and col	
🗞 Registry	🕀 🔛 Docu_Genera	New feature	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Docu-Genera
Custom actions	🗉 🔛 Docu_Genera	New component	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Docu Genera
💋 Drivers	🗉 🔛 Docu_Genera	Export to Merge Module	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Docu-Genera
Package configuration	🗉 🔛 Docu_Genera		Component	ProgramFilesFolder\PACE Suite\Docu Generator\Docu-Genera
	🗉 🔛 Docu_Genera	Properties F2	Component	ProgramFilesFolder\PACE Suite\Docu Generator\en-US\Docu
ADD accessors	🕀 🔛 Docu_Genera	Move to	Component	ProgramFilesFolder\PACE Suite\Docu Generator\de-DE\Docu
ARP appearance	🕀 🔛 Docu_Genera	Remove Del	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Docu-Genera
Upgrades	🕀 🔛 Docu_PACE.C	Go to Feature table	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Commc
Properties	🕀 🔛 Docu_PACE.Cor	nmon.comguration.or	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Commc
Summary information	🕀 🔛 Docu_PACE.Cor	nmon.Logging.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Commc
📇 Media settings	Docu_PACE.Cor	nmon.UI.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Commc
	🕀 🔛 Docu_PACE.Cor	nmon.UIStyles.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Commc
	🕀 🔛 DOCUContextN	/lenu	Component (Conditions)	TARGETDIR (ID: TARGETDIR)
	🗉 🔛 DOCUFileAssot	iation	Component (Conditions)	TARGETDIR (ID: TARGETDIR)
	🗉 🔛 DocumentForm	nat.OpenXml.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\DocumentFo
	🗉 🔛 DOCUSystem.V	Vindows.Interactivity.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\System.Wind
	🗉 🔛 Hardcodet.Wpf	TaskbarNotification.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Hardcodet.W
	🗉 🔛 HtmlAgilityPack	c.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\HtmlAgilityPa
	ICSharpCode.Sl	harpZipLib.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\ICSharpCode
	🗉 🔛 Infopulse.PACE	LicenseChecking.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Infopulse.PAC
	🗉 🔛 Ionic.Zip.dll		Component	ProgramFilesFolder\PACE Suite\Docu Generator\Ionic.Zip.dll (
	🗄 🔛 log4net.dll		Component	ProgramFilesFolder\PACE Suite\Docu Generator\log4net.dll (II
	🗄 🔛 MarkupConver	ter.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\MarkupConv
	🗄 🔛 Microsoft.Deple	pyment.WindowsInstaller.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Microsoft.De;
	Add 🔺 Re	emove		

• (Optional) Enter component Name (e.g. ActiveSetup) and click Save.

Properties	_		×
General Attributes Relationships			
MSI table: 'Component'			
Name			_
ActiveSetup			
Component ID (GUID)			_
{A67C8455-D55F-42F3-A292-FEE55933C234}		New	
Conditions			
Folder and KeyPath			
TARGETDIR (ID: TARGETDIR)	E	Browse	
NOTE Changing this folder leads to changing the Target folder for all the co KeyPath type	mpo	nent files	
Folder (Files destination tolder is used as the ReyPath)			~
KeyPath			
TARGETDIR (ID: TARGETDIR)	6	Browse	
Canal Canal			



• Go to the Package Designer -> Registry tab.

	Registry		53 values 🔰 Collapse	all Show deta
Files and folders	Name	Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined by installation type (Root: -1)	System hive		
🗞 Registry	HKEY_CLASSES_ROOT (Root: 0)	System hive		
Custom actions	.appv	Key		
🐓 Drivers	🗈 🔚 .dscn	Key		
 Package configuration Features and components APP approximate 	🗉 🔚 .mgp	Key		
	🗉 🔚 .msm	Key		
	🕀 🛄 .mst	Key		
	🕀 🛄 .wsi	Key		
Departies	AppV	Key		
Properties	Infopulse.DscnFile	Key		
Summary information	Msi.MergeModule	Key		
🛁 Media settings	Msi.Package	Key		
	Msi.Patch	Key		
	Msi.Transform	Key		
	MSIGeneratorProject	Key		
	WisePackageStudioProject	Key		
	HKEY_CURRENT_USER (Root: 1)	System hive		
	🕀 🔤 Software	Key		
	HKEY_LOCAL_MACHINE (Root: 2)	System hive		
	SOFTWARE	Key		
	HKEY_USERS (Root: 3)	System hive		

Select New key from the context menu of the HKEY_LOCAL_MACHINE hive.

 MSI Editor - PACE_v5.00.msi

MSI Editor - PACE_v5.0.0.msi							- 🗆 ×
MENU Package Summary	Package D	esigner Tables Editor					
🕶 🖿 Package resources	Registry				53 va	lues 💙 Collapse a	all Show details
Files and folders	Name			Туре	Value		Component_
Shortcuts	HKEY_C	U/LM - Defined by installation type (Root:	-1)	System hive			
🗞 Registry	HKEY_C	LASSES_ROOT (Root: 0)		System hive			
Custom actions	HKEY_C	URRENT_USER (Root: 1)		System hive			
💕 Drivers	HKEY_L	DCAL MACHINE (Root: 2)		System hive			
🕶 🔚 Package configuration	SOF	Import registry		Key			
Features and components		Export registry		Key			
ARP appearance		New key		System bive			
😅 Upgrades		New value		System nive			
Properties		New value/key removal					
Summary information		Properties F2					
🦳 Media settings		Move to					
		Remove Del					
		Go to Registry table					
		Go to Component table					
	Add 🔺	Remove					

• Enter the Software\Microsoft\Active Setup\Installed Components\[ProductCode] key name, select the previously created ActiveSetup component (or use your existing component) and



soft\Active Setup\Installed Components\[ProductCo	ode]
ed to the specified key.	
ed to the specified key. ACHINE (2)	
5	;oft\Active Setup\Installed Components\[ProductCo ming MSI requirements, the 'Forced key creation or

• Select New value from the context menu of the created Software\Microsoft\Active Setup\Installed Components\[ProductCode] key.

MSI Editor - PACE_v5.0.0.msi					– 🗆 X
■ MENU Package Summary	Package Designer Tables B	ditor			
🗸 🗁 Package resources	Registry			54 values 💙 Collaps	se all Show details
Files and folders	Name		Туре	Value	Component_
📌 Shortcuts	HKEY_CU/LM - Defined by installa	tion type (Root: -1)	System hive		
🗞 Registry	HKEY_CLASSES_ROOT (Root: 0)		System hive		
> Custom actions	HKEY_CURRENT_USER (Root: 1)		System hive		
🐓 Drivers	HKEY_LOCAL_MACHINE (Root: 2)		System hive		
🕶 🗁 Package configuration	SOFTWARE		Кеу		
Features and components			Key		
ARP appearance	Microsoft		Key		
C Upgrades	Active Setup		Key		
Properties	Installed Components		Key		
Summary information		Import registry	Key		
A Media settings	Windows NT	Event registry	String value	(Value not set)	ActiveSetup
- Media Securigs	HKEY LISERS (Root 3)	Export registry	Sustem bive		
		New key	System nive		
		New value			
		New value/key removal			
		Properties F2			
		Move to			
		Remove Del			
		Go to Registry table			
		Go to Component table			
		ee to component table	1		
	Add Remove				

• Enter the "*StubPath*" to Name, the "*msiexec /fups [ProductCode] /qb*" to Value, and select the previously created ActiveSetup component (or use your existing component) from the



mpohent_ liela. Alterwards, click save.			
Properties		- 🗆 :	×
MSI table: 'Registry'			
Value processing method			
1. Set both name and value		~	•
Name	Identifier		_
StubPath	reg_1e430083		
Value			-
Parsed value			
Type			
String value (REG_SZ)		~	<u></u>
Value			_
msiexec /fups [ProductCode] /qb			
O Raw MSI value			
msiexec /fups [ProductCode] /qb			
Key			
Software\Microsoft\Active Setup\Installed Components\[ProductCode]	Browse	
Root			
HKEY_LOCAL_MACHINE (2)		~	
Component			
ActiveSetup		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

• For saving your package, select Save from the MENU.



3.7.6.3 Add Value/Key Removal

Add the RemoveRegistry to force a registry value or key removal on install.

• Go to the Package Designer -> Registry tab.

Files and folders	Name	Tune		
Shortcuts		Type	Value	Component_
5110112015	HKEY_CU/LM - Defined by installation type (Root: -1)	System hive		
Registry	HKEY_CLASSES_ROOT (Root: 0)	System hive		
Custom actions	🗈 🔚 .appv	Key		
 Drivers 	🕢 🔝 💼 .dscn	Key		
Package configuration	🛞 🔚 .mgp	Key		
Features and components	🕢 📰 .msm	Key		
ADD appearance	🗉 📑 .mst	Key		
	🕢 🔝 wsi	Key		
Upgrades		Key		
Properties	Infopulse.DscnFile	Key		
Summary information	Msi.MergeModule	Key		
Media settings	Msi.Package	Key		
	Msi.Patch	Key		
	Msi.Transform	Key		
	MSIGeneratorProject	Key		
	WisePackageStudioProject	Key		
	HKEY_CURRENT_USER (Root: 1)	System hive		
	Software	Key		
	HKEY_LOCAL_MACHINE (Root: 2)	System hive		
	SOFTWARE	Key		
		Contrast March		

• Select New value/key removal from the context menu of a key, from which you want to remove a value or a whole key completely during the package installation.

MSI Editor - PACE_v5.0.0.msi					- 🗆 ×
■ MENU Package Summary	Package Designer	Tables Editor			
Package resources	Registry			53 values V Col	lapse all Show details
Files and folders	Name		Туре	Value	Component_
🕐 Shortcuts	HKEY_CU/LM - Defined	by installation type (Root: -1)	System hive		
🗞 Registry		Root: 0)	System hive		
> Custom actions	.appv		Key		
🐓 Drivers	🗉 🛄 .dscn		Key		
 Package configuration 	🗉 🚞 .mgp		Key		
Eestures and components	🗉 🛄 .msm		Key		
	🕀 🔚 .mst		Key		
	🕀 🔜 .wsi		Key		
Opgrades	🕀 🔚 AppV		Key		
Properties	🖃 📕 Infopulse.DscnFile	e	Key		
Summary information	🗉 🔚 Defaulticon	Import registry	Key		
📥 Media settings	🕀 🔚 shell	Export registry	Key		
	🗞 (Default) 🗞 (Default)	New key	String value	Docu Generator scenario	DOCUContextMeni
			String value	Docu Generator scenario	DOCUFileAssotiatic
	🗄 📗 Msi.MergeModule	New value/key removal	Key		
	🕀 🔚 Msi.Package	New Value/Key Terrioval	Key		
	🕀 🔚 Msi.Patch	Properties F2	Key		
	🗄 📗 Msi.Transform	Move to	Key		
	🗄 📗 MSIGeneratorProje	Remove Del	Key		
	🗄 📗 WisePackageStudic	Colta Desistantable	Key		
	HKEY_CURRENT_USER	Go to Registry table	System hive		
	🗉 🔚 Software	Go to Component table	Key		
	HKEY_LOCAL_MACHINE	(Root: 2)	System hive		
	E SOFTWARE		Key		
	HKEY_USERS (Root: 3)		System hive		
	Add • Remov	/e			



• For removing a registry value, specify its Name, select a Component from the list, which will controls the deletion of thee specified registry value, and then click Save.

For cleaning-up a Default key value, or removing a whole key with all of its values and subkeys on install, select a respective option from the Value processing method field.

Properties		_		×
MSI table: 'RemoveRegistry'				
Value processing method				
Remove value on Install				~
Name	Identifier			
	reg_0446f538	3		
Кеу				
Infopulse.DscnFile			Browse	
Root				
HKEY_CLASSES_ROOT (0)				\sim
Component_				
cmp8BEC1A678BEF51F3C3615ABCC4F9C7D4				~
Save Ca	ncel			

• For saving your package, select **Save** from the **MENU**.





3.7.6.4 Import Registry

Import registry from the REG file.

• Go to the Package Designer -> Registry tab.

	Registry		53 values V Coll	apse all Show de
Files and folders	Name	Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined by installation type (Root: -1)	System hive		
🗞 Registry	HKEY_CLASSES_ROOT (Root: 0)	System hive		
Custom actions	🗈 🔚 .appv	Key		
🐓 Drivers	🗈 🔚 .dscn	Key		
Package configuration	🗈 🔚 .mgp	Key		
Eestures and components	🗉 🔚 .msm	Key		
	🕢 📰 .mst	Key		
ARF appearance	\star 🔜 .wsi	Key		
Upgrades		Key		
Properties	🕀 🔚 Infopulse.DscnFile	Key		
Summary information	🕢 🔝 Msi.MergeModule	Key		
Media settings	🕀 🔚 Msi.Package	Key		
	🕀 🔚 Msi.Patch	Key		
	🕢 🔝 Msi.Transform	Key		
	MSIGeneratorProject	Key		
	WisePackageStudioProject	Key		
	HKEY_CURRENT_USER (Root: 1)	System hive		
	🗉 🔚 Software	Key		
	HKEY_LOCAL_MACHINE (Root: 2)	System hive		
	E SOFTWARE	Key		
	HKEY_USERS (Root: 3)	System hive		

• Select Add -> Import registry from the toolbox.

MSI Editor - PACE_v5.0.0.msi				- 🗆 X
MENU Package Summary	Package Designer Tables Editor			
🖮 Package resources	Registry		53 values 💙 Collap	ose all Show details
Files and folders	Name	Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined by installation type (Root: -1)	System hive		
🗞 Registry	HKEY_CLASSES_ROOT (Root: 0)	System hive		
Custom actions	🛨 🔜 .appv	Key		
🐓 Drivers	\star 🔜 .dscn	Key		
- 🗁 Package configuration	🕢 🔜 .mgp	Key		
Eestures and components	🗉 🔜 .msm	Key		
	🗉 🔜 .mst	Key		
	🗉 🔜 .wsi	Key		
 Opgrades Descention 	🖿 AppV	Key		
Properties	Infopulse.DscnFile	Key		
Summary information	🗈 🔚 Msi.MergeModule	Key		
A Media settings	Msi.Package	Key		
	Msi.Patch	Key		
	Msi.Transform	Key		
	MSIGeneratorProject	Key		
	WisePackageStudioProject	Key		
	HKEY_CURRENT_USER (Root: 1)	System hive		
	Software	Key		
	HKEY_LOCAL_MACHINE (Root: 2)	System hive		
	SOFTWARE	Key		
	Kay	System hive		
	Value			
	Value/kay ramoval			
	Import registry			
	Add Remove			



• Choose REG files, which you want to import to the package, and click Open.

Select REG files				×
← → • ↑	> This PC > Documents > My application > REG		✓ ບ້ Search REG	م
Organize 👻 Ne	ew folder			= • 🔳 😮
🕹 Quick accore	Name	Date modified	Туре	Size
	RegistrySettigns2.reg	2/21/2017 3:32 PM	Registration Entries	2 KB
	RegistrySettings1.reg	2/21/2017 3:32 PM	Registration Entries	5 KB
Downloads	RegistrySettings3.reg	2/21/2017 3:32 PM	Registration Entries	4 KB
 Pictures OneDrive This PC Network Homegroup 	*			
	File <u>n</u> ame: "RegistrySettigns2.reg" "RegistrySettings1.reg	g" "RegistrySettings3.re	eg" V Registry file	(.reg) (*.reg) ~ Cancel

• Review registry entries, parsed from the selected REG files, remove the unnecessary ones, and click Next.

Import registry			— 🗆	>
•				
Regist	ry Settings			
Registry to import				
Key	Value name	Value	MSI table	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\Alt	-		RemoveRegistry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\RAIt	-		RemoveRegistry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\Alt	-		RemoveRegistry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\RAIt	-		RemoveRegistry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\RAIt	Description	Use Right Alt to activate me	Registry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\RAIt	Sequence	F9	Registry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\RAIt	DisableOutput	#1	Registry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\RAlt	RunAfterFARStart	#0	Registry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\RAIt	EmptyCommandLine	#0	Registry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\RAIt	NotEmptyCommandLine	#0	Registry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\Alt	Description	Use Alt to deactivate menu	Registry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\Alt	Sequence	Esc	Registry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\Alt	DisableOutput	#1	Registry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\Alt	RunAfterFARStart	#0	Registry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\Alt	EmptyCommandLine	#0	Registry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\Alt	NotEmptyCommandLine	#0	Registry	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\Alt	Description	Use Alt to activate menu	Registry	
4				Þ.
Add Remove			Entries:	48



At the Settings step, you can select an MSI Feature, to which components with the registry
entries will be assigned. If the registry entries, which have been read, contain values in square
brackets, you can select how these values will be processed – as MSI properties or as ordinary
registry values. Below, in the tables, you will find the detailed description of these settings.
Click Finish to complete the import.

Import registry			– 🗆 X
~			
Registry	Settings		
Cattinger			
Settings			
Target feature			
<pace feature=""></pace>		~	New feature
☑ Manage features automatically			
Values with special symbols			
Кеу	Value name	Value	MSI table
HKEY_LOCAL_MACHINE\SOFTWARE\Mozilla\MaintenanceService	Test	[ProductCode]	Registry
 Escape square bracket characters to deliver original values (e.g. O Process values in square bracket as MSI properties (e.g. [String) 	g. [\[]String[\]])]])		
	< Back	Finish	Cancel

Feature settings

Manage features automatically	The specific PACE features will be created (or used if they exist) for the components, containing the imported registry. Feature structure is based on the packaging best practices and depends on the registry key location.
<a feature,="" from="" list="" selected="" the="">	Components with registry will be assigned to a feature, selected from the list.

Values with special symbols	
Escape square bracket characters to deliver original values	Values in square brackets, displayed in the list, will be saved to MSI as ordinary strings using the general rules for escaping the special characters. This approach guarantees the delivery of the imported registry entries to the target system with their original values.



properties

Values in square brackets, displayed in the list, will be saved to MSI as MSI properties. Thus, each MSI property will be replaced with its value during the MSI installation. If a property does not exist in MSI during the installation, it will be replaced with the blank value.

• For saving your package, select Save from the MENU.

Process values in square brackets as MSI





3.7.6.5 Export Registry

Export the selected registry to the REG file.

• Go to the Package Designer -> Registry tab.

	Registry		53 values V Collap	ose all Show de
Files and folders	Name	Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined by installation type (Root: -1)	System hive		
Registry	HKEY_CLASSES_ROOT (Root: 0)	System hive		
Custom actions	.appv	Key		
Drivers	🗈 🔚 .dscn	Key		
Package configuration	🗈 🛄 .mgp	Key		
Eastures and components	🗉 🛄 .msm	Key		
	🗉 🔚 .mst	Key		
ARP appearance	🗉 🔚 .wsi	Key		
Upgrades	AppV	Key		
Properties	Infopulse.DscnFile	Key		
Summary information	Msi.MergeModule	Key		
Media settings	Msi.Package	Key		
	Msi.Patch	Key		
	Msi.Transform	Key		
	MSIGeneratorProject	Key		
	WisePackageStudioProject	Key		
	HKEY_CURRENT_USER (Root: 1)	System hive		
	Software	Key		
	HKEY_LOCAL_MACHINE (Root: 2)	System hive		
	SOFTWARE	Key		
	HKEY_USERS (Root: 3)	System hive		

• Select **Export registry** from the context menu of a registry item (root hive, key, or value), which you want to export to the REG file.

MSI Editor - PACE_v5.0.0.msi						- 🗆 ×
	Package Designer	Tables Editor				
🕶 🗁 Package resources	Registry				53 values 💙 Collaps	e all Show details
Files and folders	Name			Туре	Value	Component_
🕐 Shortcuts	HKEY_CU/LM - Defined	by installation type (Root: -1)		System hive		
🗞 Registry	HKEY_CLASSES_ROOT (Root: 0)		System hive		
> Custom actions	.appv			Key		
💉 Drivers	🕀 🛄 .dscn			Key		
 Package configuration 	🗉 🛄 .mgp			Key		
Eestures and components	🗉 🛄 .msm			Key		
	🕀 🚞 .mst			Key		
	🕀 🛄 .wsi			Key		
	🕀 🛄 AppV			Key		
Properties	Infopulse.DscnFile	lasa ant an alata i		Key		
Summary information	Defaulticon	Import registry		Key		
📥 Media settings	shell	Export registry		Key		
	🗞 (Default)	New key		String value	Docu Generator scenario	DOCUContextMen
	🗞 (Default)	New value		String value	Docu Generator scenario	DOCUFileAssotiatic
	Msi.MergeModule	New value/key removal		Key		
	Msi.Package	,,		Key		
	Msi.Patch	Properties	F2	Key		
	Msi.Transform	Move to		Key		
	MSIGeneratorProje	Remove	Del	Key		
	WisePackageStudic	Go to Registry table		Key		
	HKEY_CURRENT_USER	Co to Component table		System hive		
	Software	Go to component table		Key		
	HKEY_LOCAL_MACHINE	(Root: 2)		System hive		
	SOFTWARE			Key		
	HKEY_USERS (Root: 3)			System hive		
	Add 🔺 Remo	/e				



• Specify a name and a destination location of the REG file and click Save.

l Save As			×
← → • ↑ 📕	> This PC > Downloads	✓ ひ Search Downle	pads p
Organize 👻 Ne	w folder		== - ?
✓	▲ Name	Date modified Type	Size
E. Desktop	*	No items match your search.	
🖶 Downloads	*		
Documents	*		
Pictures	*		
> 🐔 OneDrive			
> 💻 This PC			
> 💣 Network			
> 🔩 Homegroup	¥		
File <u>n</u> ame:			~
Save as <u>t</u> ype:	Registry files (*.reg)		~
 Hide Folders 		<u>S</u> ave	Cancel

3.7.6.6 Set Permissions

Set custom permissions for the registry key.

• Go to the Package Designer -> Registry tab.

🝃 Package resources	Registry		53 values 💙 Colla	pse all Show details
Files and folders	Name	Туре	Value	Component
📌 Shortcuts	HKEY_CU/LM - Defined by installation type (Root: -1)	System hive		
🗞 Registry	HKEY_CLASSES_ROOT (Root: 0)	System hive		
> Custom actions	🗈 🔜 .appv	Key		
🐓 Drivers	🗈 🔚 .dscn	Key		
Package configuration	🕀 🛄 .mgp	Key		
	🗈 🛄 .msm	Key		
ADD and and components	🗉 🛄 .mst	Key		
ARP appearance	🕀 🔤 .wsi	Key		
Upgrades	🗈 🔜 AppV	Key		
P Properties	Infopulse.DscnFile	Key		
Summary information	Msi.MergeModule	Key		
🖂 Media settings	🗉 🔜 Msi.Package	Key		
	🗉 🔜 Msi.Patch	Key		
	🗉 🔜 Msi. Transform	Key		
	MSIGeneratorProject	Key		
	WisePackageStudioProject	Key		
	HKEY_CURRENT_USER (Root: 1)	System hive		
	Software	Key		
	HKEY_LOCAL_MACHINE (Root: 2)	System hive		
	E SOFTWARE	Key		
	HKEY_USERS (Root: 3)	System hive		

• Select **Properties** from the context menu of a registry key, for which you want to set permissions. Note that permissions could not be changed for the registry values and root



MSI Editor - PACE_v5.0.0.msi						- 0
EMENU Package Summary	Package Designer	Tables Editor				
Package resources	Registry				53 values	Collapse all Show deta
Files and folders	Name			Type	Value	Component
Shortcuts	HKEY CU/LM - Defined	by installation type (Root: -1)		System hive		
🗞 Registry	HKEY CLASSES ROOT (Root: 0)		System hive		
Custom actions	appv	,		Key		
🖉 Drivers	.dscn			Key		
Package configuration	😟 🛄 .mgp 🗶 🛄 .msm			Key		
				Key		
Peatures and components ARP appearance Upgrades Properties	🗉 🛄 .mst			Key		
	.wsi			Key		
	🗄 🔜 AppV			Key		
	🖃 🚞 Infopulse.DscnFile	2	Key			
Summary information	🗉 📄 Defaulticon	Import registry		Key		
📥 Media settings	🗉 💼 shell	Export registry		Key		
	🗞 (Default)	New key New value New value/key removal		String value	Docu Generator scenario	DOCUContextMen
	🗞 (Default)			String value	Docu Generator scenario	DOCUFileAssotiatio
	Msi.MergeModule			Key		
	🗉 🔛 Msi.Package			Key		
	🗉 🔛 Msi.Patch	Properties	F2	Key		
	🕀 🔜 Msi.Transform	Move to		Key		
	🕀 🚞 MSIGeneratorProje	Remove	Del	Key		
	표 🚞 WisePackageStudic	Calta Danista tabla		Key		
	HKEY_CURRENT_USER	Go to Registry table		System hive		
	🗉 🚞 Software	Go to Component table		Key		
	HKEY_LOCAL_MACHINE	(Root: 2)		System hive		
	SOFTWARE			Key		
	HKEY_USERS (Root: 3)			System hive		

• Go to the Permissions tab of the opened Properties window.

Properties		- 0	×
Gen	eral Permissions		
Enable permission changes			
Group/SID	Access rights	Allow	Deny
	Full control		
	Read		
	Special permissions		
	Select special permissions		
	Apply 'Allow' permissions to and/or containers within this	o objects s container (only
	Apply 'Deny' permissions to and/or containers within this	objects s container (only
Add Remove			
Enable inheritance			
Propagate inheritable permissions to	all subkeys and values		\sim
	ave Cancel		



• Tick the Enable permission changes checkbox and click Add.

Properties	enangee		_		×
	General	Permissions			
Enable permission changes					
Group/SID		Access rights	ļ	Allow	Deny
		Full control			
		Read			
		Special permissions			
		Select special permissions			
		Apply 'Allow' permissions to and/or containers within th	o objeci is conta	ts ainer	only
		Apply 'Deny' permissions to and/or containers within th	o object is conta	ts ainer	only
Add Remove	2				
✓ Enable inheritance					
Propagate inheritable permissi	ons to all su	bkeys and values			~
	Save	Cancel			

• Select a group from the list or enter SID manually, for which you want to set permissions, and click Add. Note that you can add as many groups and SID as you need. Each group and SID could have individual access rights.

A	dd Gro	up or SID		×
⊙G	iroup			
В	Built-in	users (BU)		~
O S	ID			
		Add	Cancel	

• Tick the necessary access rights for the selected group or SID, change (if needed) special permissions, inheritance options and behavior of applying the permissions. Click **Save** to save the changed permission settings to MSI. Note that permissions will be propagated using the



Access rights Allow Deny Full control Image: Control Image: Control Read Image: Control Image: Control
Access rights Allow Deny Full control Image: Control Read Image: Control
Read I
Read 🗹 🗌 🗌
Special permissions
Select special permissions
Apply 'Allow' permissions to objects
and/or containers within this container only
□ Apply 'Deny' permissions to objects
and/or containers within this container only

• For saving your package, select Save from the MENU.



3.7.6.7 Remove Permissions

Locate registry key with custom permissions and remove the unnecessary permissions.

• Go to the Package Designer -> Registry tab.

			55 values 🔍	condpacian anow a
Files and folders	Name	Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined by installation type (Root: -1)	System hive		
🗞 Registry	HKEY_CLASSES_ROOT (Root: 0)	System hive		
Custom actions	.appv	Key		
🖌 Drivers	🕀 🔚 .dscn	Key		
Package configuration	🕀 🛅 .mgp	Key		
	🗉 🔚 .msm	Key		
	🕀 🔚 .mst	Key		
ARP appearance	🗉 🔚 .wsi	Key		
Upgrades	AppV	Key		
Properties	Infopulse.DscnFile	Key		
Summary information	Msi.MergeModule	Key		
- Media settings	Msi.Package	Key		
	Msi.Patch	Key		
	🕀 🔚 Msi.Transform	Key		
	MSIGeneratorProject	Key		
	WisePackageStudioProject	Key		
	HKEY_CURRENT_USER (Root: 1)	System hive		
	Software	Key		
	HKEY_LOCAL_MACHINE (Root: 2)	System hive		
	■ SOFTWARE	Key		
	HKEY_USERS (Root: 3)	System hive		

• (*Optional step*) Apply the Hide items without permissions filter to display only those registry keys, which have custom permissions.

MSI Editor - PACE_v5.0.0.msi				- 🗆 ×
■ MENU Package Summary	Package Designer Tables Editor			
 MENU Package Summary Package resources Files and folders Shortcuts Registry Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information Media settings 	Package Designer Tables Editor Registry Name HKEY_CU/LM - Defined by installation type (Root: -1) HKEY_CLASSES_ROOT (Root: 0) HKEY_CLASSES_ROOT (Root: 0) Image Image <th>Type System hive System hive Key Key Key Key Key Key Key Key Key Ke</th> <th>53 value</th> <th>s Collaose all Show details Collaose all Show details Hide value/key removal items Hide removed items Clear filter</th>	Type System hive System hive Key Key Key Key Key Key Key Key Key Ke	53 value	s Collaose all Show details Collaose all Show details Hide value/key removal items Hide removed items Clear filter
	Add Remove	Key Key Key System hive Key System hive Key System hive		



• Select **Properties** from the context menu of a registry key, for which you want to remove permissions.

MSI Editor - PACE_v5.0.0.msi						-	
■ MENU Package Summary	Package Designer	Tables Editor					
🕶 🖿 Package resources	Registry				53 values 💙	Collapse all Sh	now details
 Package resources Files and folders Shortcuts Registry Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information Media settings 	Registry Name HKEY_CU/LM - Defined HKEY_CLASSES_ROOT HKEY_CLASSES_ROOT HKEY_CURRENT_USE HKEY_CURRENT_USE HKEY_LOCAL_MACH HKEY_USERS (Root :	d by installation type (Root: -1) (Root: 0) The Import registry Export registry New key New value New value/key removal Properties Remove Remove Go to Registry table Go to Component table	Type System hive System hive System hive System hive System hive System hive	Value Value	53 values	Collapse all Sh Compone	now details
	Add 🔺 Remo	ove					

• Go to the Permissions tab of the opened Properties window.

Properties	- 🗆 ×
Gener	ral Permissions
Enable permission changes	
Group/SID	Access rights Allow Deny
Built-in users (BU)	Full control
	Read 🗹 🗆
	Special permissions
	Select special permissions
	 Apply 'Allow' permissions to objects and/or containers within this container only Apply 'Deny' permissions to objects and/or containers within this container only
Add Remove	
Enable inheritance	
Propagate inheritable permissions to a	all subkeys and values
	,
Sa	ve Cancel



• Untick the Enable permission changes checkbox and click Save.

General Permissions Group/SID Built-in users (BU) Access rights Allow Deny Full control Read Special permissions Select special permissions to objects and/or containers within this container only Add Remove Propagate inheritable permissions to all subkeys and values Save Cancel		i chunge		_		~
General Permissions Croup/SID Allow Deny Built-in users (BU) Image: Close sights Built-in users (BU) Image: Close close sights Select special permissions Select special permissions to objects and/or containers within this container only Add Remove Propagate inheritable permissions to all subkeys and values Save Cancel				_		^
□ Enable permission changes Group/SID Built-in users (BU) □ □ Built-in users (BU) □ □<		General	Permissions			
Group/SID Access rights Allow Deny Built-in users (BU) Image: Control full co						
Group/SID Antword Very Built-in users (BU) Image: Select special permissions Read Image: Select special permissions Select special permissions Image: Select special permissions to objects and/or containers within this container only Add Remove Image: Select special permissions to objects and/or containers within this container only Add Remove Image: Select special permissions to objects and/or containers within this container only Add Remove Image: Select special permissions to objects and/or containers within this container only Add Remove Image: Select special permissions to all subkeys and values Image: Select special permissions to all subkeys and values	L Enable permission changes		Accors rights		Allow	Donu
Built-in users (BU) Full Control Image: Control Read Image: Control Image: Control Special permissions Image: Control Image: Control Special permissions Image: Control Image: Control Special permissions Image: Control Image: Control Save Cancel	Group/SID		Access rights		Allow	
Read Special permissions Select special permissions Select special permissions to objects and/or containers within this container only Apply 'Deny' permissions to objects and/or containers within this container only Add Remove Propagate inheritance Save Cancel	Built-in users (BU)		Full control		V	
Special permissions Select special permissions Select special permissions Apply 'Allow' permissions to objects and/or containers within this container only Apply 'Deny' permissions to objects and/or containers within this container only Add Remove Save Cancel Cancel			Read		¥.	
Select special permissions Apply 'Allow' permissions to objects and/or containers within this container only Apply 'Deny' permissions to objects and/or containers within this container only Add Remove Enable inheritance Propagate inheritable permissions to all subkeys and values Save Cancel			Special permissions			
 Apply 'Allow' permissions to objects and/or containers within this container only Apply 'Deny' permissions to objects and/or containers within this container only Add Remove Enable inheritance Propagate inheritable permissions to all subkeys and values Save Cancel 			Select special permissions			
Apply 'Allow' permissions to objects and/or containers within this container only Apply 'Deny' permissions to objects and/or containers within this container only Add Remove Enable inheritance Propagate inheritable permissions to all subkeys and values						
Add Remove Cancel Add Remove Save Cancel Cancel			Apply 'Allow' permissions t and/or containers within th	io obje nis con	ects tainer	only
Add Remove Cancel Add Save Cancel Add Cancel Add Cancel Add Cancel Cance			Apply 'Depy' permissions t	a abia	ete	only
Add Remove Enable inheritance Propagate inheritable permissions to all subkeys and values Save Cancel			and/or containers within th	nis con	tainer (only
Add Remove Image: Cancel						
Add Remove Image: Enable inheritance Propagate inheritable permissions to all subkeys and values Save Cancel						
Add Remove Image: Cancel						
Add Remove Image: Enable inheritance Propagate inheritable permissions to all subkeys and values Save Cancel						
Enable inheritance Propagate inheritable permissions to all subkeys and values Save Cancel	Add Remove					
Enable inheritance Propagate inheritable permissions to all subkeys and values Save Cancel						
Propagate inheritable permissions to all subkeys and values Save Cancel	Enable inheritance					
Save Cancel	Propagate inheritable permissio	ons to all su	ibkeys and values			\sim
Save Cancel	-					
	l.	Save	Cancel			

For saving your package, select Save from the MENU.

 MSI Editor - PACE_v5.0.0.msi

MENU Package Summary	Package Designer	Tables Editor		
New MSI	Ctrl + N			
New MST			Complexity estimation	ו
Open	Ctrl + O			
Open recent	•			
pply MST to MSI				
emove MST from MSI				
ave	Ctrl + S			
ave as				
reate MSP against original MSI				
enerate package report			Complexity level:	
Deploy to SCCM			Medium	
ctive scripting				
ompare packages				
dit	•			
port and export	•			
alidation	•			
lelp	•			
uit	Alt + F4			

3.7.6.8 Move Value, Key

Move a registry value or a key from one parent key to another one.

• Go to the Package Designer -> Registry tab.

Package resources	Registry		53 values V Col	lapse all Show d
Files and folders	Name	Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined by installation type (Root: -1)	System hive		
🗞 Registry	HKEY_CLASSES_ROOT (Root: 0)	System hive		
Custom actions	.appv	Key		
🐓 Drivers	😠 🛅 .dscn	Key		
Package configuration	🕀 🛅 .mgp	Key		
 Eastures and components 	🕀 🔚 .msm	Key		
	🗈 🔚 .mst	Key		
ARP appearance	\star 🛄 .wsi	Key		
Upgrades	AppV	Key		
Properties	Infopulse.DscnFile	Key		
Summary information	Msi.MergeModule	Key		
- Media settings	Msi.Package	Key		
	🕢 🔝 Msi.Patch	Key		
	Msi.Transform	Key		
	MSIGeneratorProject	Key		
	WisePackageStudioProject	Key		
	HKEY_CURRENT_USER (Root: 1)	System hive		
	Software	Key		
	HKEY_LOCAL_MACHINE (Root: 2)	System hive		
	SOFTWARE	Key		
		Custom bius		

• Select Move to from the context menu of a registry key or a value, which you want to move to another key.

MSI Editor - PACE_v5.0.0.msi					- 🗆 ×
■ MENU Package Summary	Package Designer	Tables Editor			
🕶 🛅 Package resources	Registry			53 values 💙 Collaps	se all Show details
Files and folders	Name		Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined	by installation type (Root: -1)	System hive		
🗞 Registry		Root: 0)	System hive		
<>> Custom actions	.appv		Key		
🗩 Drivers	🗉 🚞 .dscn		Key		
🕶 🗁 Package configuration	🗉 🛄 .mgp		Key		
Eestures and components	🗉 🛄 .msm		Key		
	🗉 🛄 .mst		Key		
C Upgrader	🗉 🛄 .wsi		Key		
Opgrades	🕀 🔚 AppV		Key		
	Infopulse.DscnFile	Import registry	Кеу		
Summary information	Defaulticon		Key		
📇 Media settings	🕀 🔛 shell	Export registry	Key		
	🗞 (Default)	New key	String value	Docu Generator scenario	DOCUContextMen
	🗞 (Default)	New value	String value	Docu Generator scenario	DOCUFileAssotiatic
	Msi.MergeModule	New value/key removal	Key		
	Msi.Package		Key		
	Msi.Patch	Properties F2	Key		
	Msi.Transform	Move to	Key		
	MSIGeneratorProje	Remove Del	Key		
	WisePackageStudic	Go to Registry table	Key		
	HKEY_CURRENT_USER	Co to Component table	System hive		
	Software	Go to Component table	Key		
	HKEY_LOCAL_MACHINE	(Root: 2)	System hive		
	SOFTWARE		Key		
	HKEY_USERS (Root: 3)		System hive		
	Add 🔺 Remov	/e			



• Select a new destination key from the registry tree and click Select.

Select a key — E) X
Name	
HKEY_CU/LM - Defined by installation type (Root: -1)	
HKEY_CLASSES_ROOT (Root: 0)	
.appv	
.dscn	
.mgp	
.msm	
.mst	
.wsi	
🛨 🔜 AppV	
🕣 🔜 Infopulse.DscnFile	
Msi.MergeModule	
Msi.Package	
Msi.Patch	
Msi.Transform	
MSIGeneratorProject	
WisePackageStudioProject	
HKEY_CURRENT_USER (Root: 1)	
G Software	
[Manufacturer]	
Microsoft	
HKEY_LOCAL_MACHINE (Root: 2)	
Software	
HKEY_USERS (Root: 3)	
T Select Cancel	

• For saving your package, select Save from the MENU.



3.7.6.9 Edit Registry Key

Modify details and options of the selected registry key.

• Go to the Package Designer -> Registry tab.

E) Files and folders			55 (0,005)	
	Name	Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined by installation type (Root: -1)	System hive		
🗞 Registry	HKEY_CLASSES_ROOT (Root: 0)	System hive		
Custom actions	.appv	Key		
🐓 Drivers	🕀 🛄 .dscn	Key		
Package configuration	🕀 🛄 .mgp	Key		
Features and components	🕀 🛄 .msm	Key		
ARP appearance	🕀 🛄 .mst	Key		
	🕀 🛄 .wsi	Key		
D Bragastias		Key		
Properties	Infopulse.DscnFile	Key		
Summary information	Msi.MergeModule	Key		
	Msi.Package	Key		
	Msi.Patch	Key		
	🕀 🔤 Msi.Transform	Key		
	MSIGeneratorProject	Key		
	WisePackageStudioProject	Key		
	HKEY_CURRENT_USER (Root: 1)	System hive		
	🗄 🔚 Software	Key		
	HKEY_LOCAL_MACHINE (Root: 2)	System hive		
	SOFTWARE	Key		
	HKEY_USERS (Root: 3)	System hive		

• Select **Properties** from the context menu of a registry key, details of which you want to review and modify.

MSI Editor - PACE_v5.0.0.msi						- 🗆 X
■ MENU Package Summary	Package Designer	Tables Editor				
🕶 🖿 Package resources	Registry				53 values 💙 Coll	apse all Show details
Files and folders	Name			Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Define	d by installation type (Root: -1)		System hive		
🗞 Registry	HKEY_CLASSES_ROOT	(Root: 0)		System hive		
> Custom actions	.appv			Key		
💉 Drivers	🗉 🛄 .dscn			Key		
 Package configuration 	🗉 🚞 .mgp			Key		
Eeatures and components	🗉 🛄 .msm			Key		
	🗉 🚞 .mst			Key		
	🗉 🛄 .wsi			Key		
Dranastias	AppV			Key		
Properties	Infopulse.DscnFile			Key		
Summary Information		Import registry		Key		
Media settings	shell	Fundant registry		Key		
	🗞 (Default)	export registry		String value	Docu Generator scenario	DOCUContextMenu
	🗞 (Default)	New key		String value	Docu Generator scenario	DOCUFileAssotiatic
	Msi.MergeModu	New value		Key		
	Msi.Package	New value/key removal	ı —	Key		
	Msi.Patch	Proportion	F2	Key		
	MSI GeneratorPro	Properties	F2	Key		
	WisePackageStu	Nove to	Del	Key		
		Remove	Dei	System hive		
	Software	Go to Registry table		Key		
	HKEY LOCAL MACH	Go to Component table	e	System hive		
	SOFTWARE			Key		
	HKEY_USERS (Root: 3)		System hive		
	Add 🔺 Rem					

 Using the Properties window make the necessary changes to the key Name, its Parent key and Root hive. You can modify the Parent key directly in the text field or use Browse to choose a new key from the registry tree. Note that changing the Parent key and/or the Root hive will result in moving the selected key to a new location.



Select the necessary key **Options** (e.g. 'Create key on install, even if empty') to secure the key creation and/or removal. The selected key **Options** will be represented as special registry values, created under this key. Afterwards, click **Save**.

Properties	_		×
General Permissions			
MSI table: 'Registry'			
Name			
Defaulticon			
Parent key			
Infopulse.DscnFile		Browse	
Root			
HKEY_CLASSES_ROOT (0)			~
Options Create key on install, even if empty Component_			
			\sim
Remove key with all of its values and subkeys before install component_			
			\sim
Remove key with all of its values and subkeys on uninstall Component_			
			\sim
Save Cancel			

For saving your package, select Save from the MENU.
 MSI Editor - PACE v5.00 msi

SI Editor - PACE_v5.0.0.msi						
MENU Package Summary	Package Designer	Tables Editor				
New MSI New MST	Ctrl + N		Complexit	y estimation		
Open	Ctrl + O					
Open recent	•					
Apply MST to MSI Remove MST from MSI						
Save	Ctrl + S					Files:
Save as						Regis
Create MSP against original MSI.				Complexity level:		Custo
Deploy to SCCM				Medium		Servi
Active scripting						ODB
Compare packages						ICE e
Edit	•					
Import and export	•					
Validation	•					
Help	•					
Quit	Alt + F4		Recalculate	Export results to f	ile	

3.7.6.10 Edit Registry Value

Modify details of the selected registry value.

• Go to the Package Designer -> Registry tab.

-	Registry		53 values 🔰 Colla	ose all Show de
Files and folders	Name	Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined by installation type (Root: -1)	System hive		
Registry	HKEY_CLASSES_ROOT (Root: 0)	System hive		
Custom actions	🗈 🛅 .appv	Key		
Drivers	🗉 🔚 .dscn	Key		
Package configuration	🗉 🔚 .mgp	Key		
Features and components	🗉 🔚 .msm	Key		
	🗉 🔚 .mst	Key		
ARP appearance	🗉 🔜 .wsi	Key		
Upgrades	AppV	Key		
Properties	🗈 🔚 Infopulse.DscnFile	Key		
Summary information	🗉 🔚 Msi.MergeModule	Key		
📇 Media settings	🕀 🔚 Msi.Package	Key		
	🗉 🚞 Msi.Patch	Key		
	🕀 🔚 Msi.Transform	Key		
	MSIGeneratorProject	Key		
	WisePackageStudioProject	Key		
	HKEY_CURRENT_USER (Root: 1)	System hive		
	🗉 🚞 Software	Key		
	HKEY_LOCAL_MACHINE (Root: 2)	System hive		
	SOFTWARE	Key		
	HKEY_USERS (Root: 3)	System hive		

• Select **Properties** from the context menu of a registry value, details of which you want to review and modify.

MSI Editor - PACE_v5.0.0.msi					– 🗆 X	
	Package Designer	Tables Editor				
🕶 🖿 Package resources	Registry			53 values 💙 Collaps	e all Show details	
Files and folders	Name		Туре	Value	Component_	
📌 Shortcuts	HKEY_CU/LM - Defined	by installation type (Root: -1)	System hive			
🗞 Registry	HKEY_CLASSES_ROOT	Root: 0)	System hive			
> Custom actions	appv 📄 📃		Key			
🐓 Drivers	🗞 (Default)		String value	AppV	ContextMenuAppv	
 Package configuration 	🗞 (Default)		String value	AppV	AppvAssotiation	
Eestures and components	🗞 Content Type		String value	application/appv	ContextMenuAppv	
	🗞 Content Type	Type Import registry Export registry	String value	Edit with MSI Generator	AppvAssotiation	
	🗉 🚞 .dscn		Key			
Opgrades Descertion	🕀 🚞 .mgp	New key New value	Key			
Properties	🕀 🚞 .msm		Key			
Summary information	🕀 🚞 .mst		Key			
Andia settings	Media settings Media settings Media settings Media settings Properties F2		Key			
			Key			
	Infopulse.DscnFile	Move to	Key			
	Msi.MergeModule	Remove Del	Key			
	Msi.Package		Key			
	Msi.Patch	Go to Registry table	Key			
	Msi.Transform	Msi.Transform Go to Component table				
	MSIGeneratorProject		Key			
	WisePackageStudioProject		Key			
	HKEY_CURRENT_USER (Root: 1)		System hive			
	HKEY_LOCAL_MACHINE	(Root: 2)	System hive			
	SOFTWARE		Key			
	HKEY_USERS (Root: 3)		System hive			
Add • Remove						



 Using the Properties window make the necessary changes to the value Name, Value itself, and **Component** that controls the installation of this registry value.

The **Parsed value** option serves easier editing of a registry value of the selected value type. The Raw MSI value option displays and gives ability to manage what exactly will be saved to the opened MSI database.

Note that changing a Key and a Root hive will result in moving this registry value to a new location. You can modify the Key directly in the text field or use Browse to choose a new key from the registry tree.

The Value processing method options defines whether this value will be an ordinary registry value with the specified Name and Value or will secure a key creation and/or removal. Below, in the tables, you will find the detailed description of these options.

Afterwards, click Save .							
Properties					_		×
MSI table: 'Registry'							
Value processing method							
1. Set both name and value							~
Name			Identifier				
Content Type			regAD	190B52	25F3F	BC9D38	BCF!
Value Parsed value Type							
String value (REG_SZ)							~
Value							
application/appv							
O Raw MSI value							
application/appv							
Key							
.appv					E	Browse	
Root							
HKEY_CLASSES_ROOT (0)							~
Component_							
ContextMenuAppv							~
Sav	e	Cancel					

e 5.2 - Getting Started		•		
Value processing method				
1. Set both name and value	On install, the packag with the specified nar registry at the selecte On uninstall, the pac	ge creates an ordinary reg me and value itself in the ed root and key. kage removes this registr	gistry value system v value from	
	the system registry. T automatically remove	he containing registry ke ed only if it is empty.	y will be	
	On install, the package the specified value in root and key. In the s represented as "(Def	ge creates the Default key the system registry at the system registry, this value ault)":	/ value with e selected is	
2. Cata Defaulte lassandus	Name	Туре	Data	
2. Set < Default > key value	ab (Default)	REG_SZ	Test	
	On uninstall, the package cleans-up the Default key registry value in the system registry. The containing registry key will be automatically removed only if it is empty.			
3. Create the key on install, even if empty	On install, the package creates the specified key in the system registry at the selected root, even if this key is empty. By default, empty keys are not created.			
	On uninstall, no additional actions take place.			
4. Remove the key with all of its values	On install, no additional actions take place.			
and subkeys on uninstall	On uninstall, the package removes this key completely along with all of its values and subkeys.			
5. Both 3 and 4	On install, the packag system registry at the empty. By default, er	ge creates the specified ke e selected root, even if thi npty keys are not created	ey in the s key is	

NOTE For removing registry values or keys from the system registry before install, add the Value/key removal item, described in section 3.7.6.3

On uninstall, the package removes this key completely

along with all of its values and subkeys.



For saving your package, select Save from the MENU. •



3.7.6.11 Edit Value/Key Removal

Modify details of the selected value/key removal item (RemoveRegistry) to secure a value or a key removal during the package installation.

Go to the Package Designer -> Registry tab. •

·;;,				
Package resources	Registry		53 values 💙 Coll	apse all Show de
Files and folders	Name	Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined by installation type (Root: -1)	System hive		
Registry	HKEY_CLASSES_ROOT (Root: 0)	System hive		
Custom actions	.appv	Key		
Drivers	🗉 🔚 .dscn	Key		
Package configuration	🗉 🔤 .mgp	Key		
Eestures and components	🗉 🔜 .msm	Key		
	🗉 🔜 .mst	Key		
ARF appearance	🗉 🔜 .wsi	Key		
opgrades	🗉 🔤 AppV	Key		
Properties	🗉 🔚 Infopulse.DscnFile	Key		
Summary information	Msi.MergeModule	Key		
Media settings	🗉 🔚 Msi.Package	Key		
	🗉 🔜 Msi.Patch	Key		
	🗄 🔜 Msi.Transform	Key		
	MSIGeneratorProject	Key		
	WisePackageStudioProject	Key		
	HKEY_CURRENT_USER (Root: 1)	System hive		
	Software	Key		
	HKEY_LOCAL_MACHINE (Root: 2)	System hive		
	SOFTWARE	Key		
	HKEY_USERS (Root: 3)	System hive		



• Select **Properties** from the context menu of a 'Value/key removal' item, details of which you want to review and modify.

MSI Editor - PACE_v5.0.0.msi					- 🗆 ×
	Package Designer Tables Editor				
🕶 🗁 Package resources	Registry			54 values 💙 Collap	se all Show details
Files and folders	Name		Туре	Value	Component_
Shortcuts	HKEY_CU/LM - Defined by installation type	(Root: -1)	System hive		
🗞 Registry	HKEY_CLASSES_ROOT (Root: 0)		System hive		
Custom actions	HKEY_CURRENT_USER (Root: 1)		System hive		
💉 Drivers	HKEY_LOCAL_MACHINE (Root: 2)		System hive		
🕶 🗁 Package configuration	SOFTWARE		Кеу		
Features and components	[Manufacturer]		Key		
ARP appearance	[ProductName]		Key		
C Upgrades	[ProductVersion]		Key		
P Properties	[ProductCode]		Key		100055010101
Summary information	CompatibleMode KompatibleMode KompatibleMode Microsoft Microsoft Fixed tradition		value/key.removal		Cmp10286C2131D4
Media settings				-	INI_CONIG.III I
	HKEY USERS (Root: 3)				
		New key			
		New value			
		New value/key remova	I		
		Properties	F2		
		Move to			
		Remove	Del		
		Go to RemoveRegistry	table		
Go to Component t		Go to Component tabl	e		
	-				
	Add • Remove				



 Using the Properties window make the necessary changes to a value Name, its Key, Root hive, and Component that controls the deletion of this registry value. Note that the specified registry value will be removed from the system registry at the selected root and key during the package installation, right before new registry values are created.

The Value processing method options defines what will be removed: an ordinary value, a Default key value, or whole key. Below, in the tables, you will find the detailed description of these options. Afterwards, click Save.

Properties		-	_		\times
MSI table: '	RemoveRegistry'				
Pomovo voluo on install					~
Remove value on install					•
Name		Identifier			
CompatibleMode		reg_876dc4bd			
Key					
SOFTWARE\[Manufacturer]\[ProductName]\[ProductVersi	on]\[ProductCo	E	Browse	
Root					
HKEY_LOCAL_MACHINE (2)				~
Component_					
cmp10286C2131D465A0E5	3FC142F3D0226F				~
	Save Cance	2			

Value processing method							
Remove value on install	On install, right before new registry values are created, the package removes an ordinary registry value of the specified name from the system registry at the selected root and key.						
	On uninstall, no additional actions take place.						
Clean-up <default> key value on install</default>	On install, right before new registry values are created, the package cleans-up the Default key value with the specified value in the system registry at the selected root and key. In the system registry, this value is represented as "(Default)": Name Type Data (Default) REG_SZ (value not set) On uninstall, no additional actions take place.						
Remove the key with all of its values and subkeys on install	On uninstall, no additional actions take place. On install, right before new registry values are created, the package removes this key completely along with all of its values and subkeys. On uninstall, no additional actions take place.						


Save

Edit

Help Quit

For saving your package, select Save from the MENU. •







3.7.7 Custom Actions

Choose a scenario that better suits your needs:

- Add Standard Actions, described in section 3.7.7.1 Add new standard actions to the necessary sequences.
- Add Custom Action, described in section 3.7.7.2 Add a new custom action with the aim of launching EXE, calling functions from DLL, running VBScript, Jscript, setting a new property value, folder path, and showing an error message.
- Run PowerShell script, described in section 3.7.7.2.1 Run a PowerShell script from MSI on install or uninstall.
- Edit Custom Action, described in section 3.7.7.3 Edit basic type, resources, sequence and other settings of the existing custom action.

3.7.7.1 Add Standard Actions

Add new standard actions to the necessary sequences of the opened package.

• Go to the Package Designer -> Custom actions tab.

📁 Package resources	Custom action flow		20 items 💙 Collap	ose all Show details
Files and folders	Actions (in order of execution)	Type and options	Basic type	Execution mode
📌 Shortcuts	Kormal (simple) installation			
🗞 Registry	🕑 🦢 Ul sequence	-	-	
> Custom actions	Execution sequence	-	-	-
🖌 Drivers	SetWIX_IS_NETFRAMEWORK_472_OR_LATER_INSTALLED	51	Set a new property value	Immediate
Package configuration	DisablePaceDowngrade	19	Display an error message	Immediate
Eestures and components	SetARPINSTALLLOCATION	51	Set a new property value	Immediate
	SetHELPSHORTCTLOCATION	51	Set a new property value	Immediate
AKP appearance	SetSHORTCUTLOCATION	51	Set a new property value	Immediate
Upgrades	SetSERIALKEYNULL	51	Set a new property value	Immediate
Properties	SchedXmlConfig	1	Call a function from DLL	Immediate
Summary information	InstallDotNetVersion	3282	Launch an EXE	Deferred
📥 Media settings	RemoveWebinstallerCache	3238	Run a VBScript	Deferred
	Administrative installation	-	-	-
	🗁 UI sequence	-	-	-
	Execution sequence	-	-	-
	Advertisement installation	-	-	-
	Execution sequence	-	-	-
	🗉 🗁 Not sequenced	-	-	-





• (Optional) To review the existing standard actions, hidden by default, click on the **I** and untick the 'Hide standard actions' filter.

Package resources	Custom action flow		89 items 💙 Collap	se all Show detai
Files and folders	Actions (in order of execution)	Type and options	Basic type Hide s	standard actions
📌 Shortcuts	Ketons (in order of electronis)	-	- Hide r	removed items
🗞 Registry	I I sequence		- Class 64	
Custom actions	Execution sequence	-	- Clear Int	.er
🐓 Drivers	LaunchConditions			
Package configuration	> FindRelatedProducts			
	AppSearch			
Peatures and components	SetWIX_IS_NETFRAMEWORK_472_OR_LATER_INSTALLED	51	Set a new property value	Immediate
ARP appearance	DisablePaceDowngrade	19	Display an error message	Immediate
Upgrades	ValidateProductID			
Properties				
Summary information	FileCost			
🚔 Media settings	SetARPINSTALLLOCATION	51	Set a new property value	Immediate
	SetHELPSHORTCTLOCATION	51	Set a new property value	Immediate
	SetSHORTCUTLOCATION	51	Set a new property value	Immediate
	InstallValidate			
	RemoveExistingProducts			
	SetSERIALKEYNULL	51	Set a new property value	Immediate
	Installinitialize			
	> MsiUnpublishAssemblies			
	VnpublishFeatures			
	RemoveRegistryValues			
	RemovelniValues			

• Select Add -> Standard actions from the toolbox.

	Custom action flow			Show details
	custom action now		89 items 🔰 Collap	se all Show details
Files and folders	Actions (in order of execution)	Type and options	Basic type	Execution mode
Shortcuts	🖃 👕 Normal (simple) installation	-	-	•
🗞 Registry	🕀 🔚 UI sequence	-	•	•
Custom actions	Execution sequence	-	•	•
🐓 Drivers	LaunchConditions			
Package configuration	> FindRelatedProducts			
Features and components	AppSearch			
ARP appearance	SetWIX_IS_NETFRAMEWORK_472_OR_LATER_INSTALLED	51	Set a new property value	Immediate
	DisablePaceDowngrade	19	Display an error message	Immediate
	ValidateProductID			
Cummary information				
	FileCost			
media settings		51	Set a new property value	Immediate
		51	Set a new property value	Immediate
	SetSHORICUTLOCATION	51	Set a new property value	Immediate
		F1	Cot a new annual colum	lasara dinta
		51	Set a new property value	Immediate
	A Meil InnublichAssemblies			
	() Historipublisheatures			
	Custom antian alues			
	custom action rtcuts			

• Select the standard actions, which you want to add, and click Add. Note that you can add many actions to the different installation sequences at once. The list displays only those



standard actions, which do not avist in the one - -1 - 1

	_		
Standard actions			
The list displays standard actions, which are recommended for the	selected	sequer	nce
and do not exist in the package yet. See all standard actions descr	iption onl	ine.	
Select all/none			*
□ MigrateFeatureStates			
□ AllocateRegistrySpace			
UnpublishComponents			
□ StopServices			
DeleteServices			
UnregisterComPlus			
SelfUnregModules			
UnregisterTypeLibraries			
RemoveODBC			
UnregisterFonts			
✓ UnregisterClassInfo			
✓ UnregisterExtensionInfo			
✓ UnregisterProgldInfo			
RemoveEnvironmentStrings			
L RemoveFolders			
L CreateFolders			
L MoveFiles			Ŧ
	Standard actions The list displays standard actions, which are recommended for the and do not exist in the package yet. See all standard actions descr Select all/none Select all/none AllocateRegistrySpace UnpublishComponents StopServices DeleteServices UnregisterComPlus SelfUnregModules UnregisterTypeLibraries RemoveODBC UnregisterFonts UnregisterExtensionInfo UnregisterProgIdInfo UnregisterProgIdInfo RemoveEnvironmentStrings RemoveFolders CreateFolders MoveFiles	Standard actions The list displays standard actions, which are recommended for the selected and do not exist in the package yet. See all standard actions description on Select all/none MigrateFeatureStates AllocateRegistrySpace UnpublishComponents StopServices DeleteServices DeleteServices SelfUnregModules UnregisterComPlus SelfUnregModules UnregisterTypeLibraries RemoveODBC UnregisterFonts UnregisterFonts UnregisterExtensionInfo UnregisterProgIdInfo UnregisterProgIdInfo CreateFolders RemoveFolders MoveFiles	Standard actions The list displays standard actions, which are recommended for the selected sequer and do not exist in the package yet. See all standard actions description online. Select all/none MigrateFeatureStates AllocateRegistrySpace UnpublishComponents StopServices DeleteServices UnregisterComPlus SelfUnregModules UnregisterTypeLibraries RemoveODBC UnregisterFonts UnregisterProgldInfo UnregisterProgldInfo UnregisterProgldInfo RemoveFolders RemoveFolders MoreFiles

٥

For saving your package, select Save from the MENU. •







3.7.7.2 Add Custom Action

Add a new custom action with the aim of launching EXE, calling functions from DLL, running VBScript, Jscript, setting a new property value, folder path, and showing an error message.

• Go to the Package Designer -> Custom actions tab.

MSI Editor - PACE_v5.0.0.msi				- 🗆	
MENU Package Summary	Package Designer Tables Editor				
Package resources	Custom action flow		20 items 🝸 Collap	se all Show details	
Files and folders	Actions (in order of execution)	Type and options	Basic type	Execution mode	
📌 Shortcuts	🖃 j Normal (simple) installation	-	-	-	
🗞 Registry	🗉 🚞 Ul sequence	-	-	-	
> Custom actions	Execution sequence	-	-	-	
💋 Drivers	SetWIX_IS_NETFRAMEWORK_472_OR_LATER_INSTALLED	51	Set a new property value	Immediate	
Package configuration	DisablePaceDowngrade	19	Display an error message	Immediate	
E Footures and components	SetARPINSTALLLOCATION	51	Set a new property value	Immediate	
	SetHELPSHORTCTLOCATION	51	Set a new property value	Immediate	
AKP appearance	SetSHORTCUTLOCATION	51	Set a new property value	Immediate	
Upgrades	SetSERIALKEYNULL	51	Set a new property value	Immediate	
Properties	SchedXmlConfig	1	Call a function from DLL	Immediate	
Summary information	InstallDotNetVersion	3282	Launch an EXE	Deferred	
금 Media settings	RemoveWebinstallerCache	3238	Run a VBScript	Deferred	
	Administrative installation	-	-	+	
	🗁 UI sequence	-	-	-	
	Execution sequence	-	-	-	
	Advertisement installation	-	-	-	
	Execution sequence	-	-	-	
	🗄 🔚 Not sequenced	-	-	-	

• Select Add -> Custom action from the toolbox.

MSI Editor - PACE_v5.0.0.msi				– 🗆 X	
■ MENU Package Summany	Package Designer Tables Editor				
- MENO Package Summary	Fackage Designer Tables Luitor				
🕶 🗁 Package resources	Custom action flow		20 items 🝸 Collap	se all Show details	
Files and folders	Actions (in order of execution)	Type and options	Basic type	Execution mode	
Shortcuts	🖃 🔚 Normal (simple) installation		•	-	
🗞 Registry	🗉 🛅 UI sequence	-	-	-	
> Custom actions	Execution sequence	-	-	-	
💉 Drivers	SetWIX_IS_NETFRAMEWORK_472_OR_LATER_INSTALLED	51	Set a new property value	Immediate	
🕶 🗁 Package configuration	Normal (simple) installation - - - - W Isequence - - - - - Securiton sequence - - - - - VI Securiton sequence - - - - - VI Securiton sequence - - - - - VI SetWIX JS, NETRAMEWORK, 472_OR_LATER_INSTALLED 51 Set a new property value Immediate VI SetWIX JS, NETRAMEWORK, 472_OR_LATER_INSTALLED 51 Set a new property value Immediate VI SetARPINSTALLLOCATION 51 Set a new property value Immediate VI SetHELPSHORTCUTLOCATION 51 Set a new property value Immediate VI SetSERIALKEYNULL 51 Set a new property value Immediate VI SetSERIALKEYNULL 51 Set a new property value Immediate VI InstallDotNetVersion 3282 Lauch an EXE Deferred VI InstallotNetVersion 3238 Run a VBScript Deferred VI sequence - - - - VI sequence - - - </td				
Features and components	SetARPINSTALLLOCATION 51		Set a new property value	Immediate	
ARP appearance	SetHELPSHORTCTLOCATION	51	Set a new property value	Immediate	
Image: Set and components (r) SetAntristratticontrol 51 Set a new property value Immediate Image: ARP appearance (r) SetAntristratticontrol 51 Set a new property value Immediate Image: Outparades (r) SetAntristratticontrol 51 Set a new property value Immediate Image: Outparades (r) SetAntristratticontrol 51 Set a new property value Immediate Image: Outparades (r) SetAntristratticontrol 51 Set a new property value Immediate Image: Outparades (r) SetAntristratticontrol (r) SetAntristratticontrol SetAntristratticontrol Immediate Image: Outparades (r) SetAntristratticontrol SetAntristratticontrol SetAntristratticontrol Immediate Image: Outparades (r) SetAntristratticontrol SetAntristratticontrol Immediate Immediate (r) SetAntristratticontrol SetAntristratticontrol Immediate Immediate (r) SetAntristratticontrol SetAntristratticontrol Immediate <td>Immediate</td>	Immediate				
	Immediate				
	C Upgrades <>>>>>>>> SetsHORTCUTLOCATION 51 Set a new property value Imme © Upgrades <>>>> >>>>>>>>>>>>>>>>>>>>>>>>>>>>	Immediate			
Summary Information	InstallDotNetVersion	3282	Launch an EXE	Deferred	
Media settings	RemoveWebinstallerCache	3238	Run a VBScript	Deferred	
	Administrative installation	-	-	-	
	Ul sequence	-	-	-	
	Execution sequence	-	-	-	
	Advertisement installation	-	-	-	
	Execution sequence	-	-	-	
	H Wot sequenced	-	-	-	
	Custom action				
	Standard actions				
	Add 🔺 Edit Remove 🔨 🗸				



• Select a basic type of your custom action (e.g. Run a VBScript), and click Next. (The following instruction describes creation of the 'Run a VBScript' custom action).

I Add/Edit custom action			×
• • • • • •			
Basic type Resources Options Sequencing			
Basic type of custom action			
 Call a function from DLL A custom action that calls a function defined in a dynamic-link library (DLL) written in C or C++. 			
EXE O Launch an EXE A custom action that launches an executable file.			
O Run a JScript A custom action that calls functions that are written in JScript.			
Run a VBScript A custom action that calls functions that are written in VBScript.			
[P] ^O Set a new property value A custom action that sets a new property value in run-time depending on specified conditions.			
 Set a new folder path A custom action that changes the installation path of a folder in run-time depending on specified 	conditio	ns.	
 Display an error message A custom action that displays a specified error message, returns failure, and then terminates the in 	nstallation	n.	
Next >		Cancel	



• Specify where the VBScript file is located or embed a script body directly into the custom action. Then, click Next.

Add/Edit custom action								×
								
	Basic type	Resources	Options	Sequencing				
Run a VBScript								
 Stored in the temporary binar Binary 	y stream							
					~	New	binary	
O Installed by this package along File	g with this appli	cation						
						Bro	wse	
 Code of which is specified in t Property 	he property							
	ript emporary binary stream Image: specified and specified in the property Image: specified directly in the custom action w_Message(msgType, msgText) = msiMaxMessageType then : Session.Installer.CreateRecord(0) oData(0) = msgText	propert	у					
 Code of which is specified dire Script code 	ectly in the custo	om action						
Function Show_Message(ms	gType, msgText)							*
Set record = Session.Installe record.StringData(0) = msg	Basic type Resources Options Sequencing Una VBScript Stored in the temporary binary stream Binary Image: Control of the temporary binary stream Installed by this package along with this application File Installed by this package along with this application Code of which is specified in the property Property Image: Code of which is specified directly in the custom action Script code Function Show_Message(msgType, msgText) If msgType <= msiMaxMessageType then		-					
		- III						
	t can be ca	alled						
Function name								
				< Back	Next >		Cancel	



• At the Options step you can set an Action name, select Execution mode (Immediate, Deferred, Rollback and Commit), execution context, scheduling, return processing and other options. Then, click Next.

NOTE All options that are incompatiable with the previously selected settings are disabled.

Add/Edit custom action						_		×
								
Basic t	type	Resources	Options	Sequence	cing			
Identification								
Action name								
CA_VBScript_1								
Execution and processing	setting	IS						
Execution mode	, section g	5						
Deferred (Execute the action while the s	system is t	peing modified)						~
O Rup in logged-on user's context								
 Run in system context 								
O Run with user impersonation during p	per-machi	ine installs on a t	terminal serve	er				
Scheduling option								
Always execute (default)								\sim
Return processing option								
A synchronous execution that fails if the	e exit code	e is not 0						~
✓ Write the custom action details to the	e log file							
🗌 Run JScript or VBScript in 64-bit envir	ronment							
				< Back	Next >		Cancel	



• The last step allows selecting secuences, where your custom action will be runned. The sequence drop-down list allows you to select only compatible positions, taking into account your previously selected options. Also, you are free to specify execution conditions either by entering them manually or choosing from the drop-down list. Click Finish to add your custom action.

NOTE Incompatible sequences are disabled.

Add/Edit custom action						_		\times
	~							
	Basic type	Resources	Options	Sequenci	ing			
Normal (simple) inst	allation							
UI sequence			UI sequence cond	litions				
Do not run in this sequence		~						
Execution sequence (recommended)		Execution sequer	ce conditions				
Run after InstallInitialize		~						
Administrative insta	llation							
UI sequence			UI sequence cond	litions				
Do not run in this sequence		~						
Execution sequence			Execution sequer	ce conditions				
Do not run in this sequence		~						
NOTE The UI sequences, which the user interface level is set to An administrative installation is and groups of users.	n typically contain Reduced or Full; s typically initiated	standard actions and, respectively by a network add	related to colle are skipped if l ministrator to a	cting system evel is set to l ssign and inst	information, are c basic UI or no UI. all applications fo	only pro	ocessec idual us	d if sers
The advertisement installation	sequence is not p	present on this ste	p because it ca	nnot be used	for custom action	ns.		
For information on the sequen	ice conditions, see	Conditional Sta	tement Syntax (online.				
			-					
				< Back	Finish		Cance	l

• For saving your package, select Save from the MENU.



3.7.7.2.1 Run PowerShell script

Run a PowerShell script from MSI on install or uninstall. This solution consists of two parts: (1) importing PowerShell script to the package; (2) adding a Custom action for running this script.

• Go to the Package Designer -> Files and folders tab.

Package resources	Files and folders	426 file	es (142,0 MB) 🔽	Collapse all	Show deta
Files and folders	Name	Туре	Size	Version	MSI table
Shortcuts	E TARGETDIR	Folder			Directory
🗞 Registry	DesktopFolder	Folder			Directory
Custom actions	ProgramFilesFolder	Folder			Directory
🐓 Drivers	PACE Suite (ID: INSTALLDIR)	Folder			Directory
Package configuration	ProgramMenuFolder	Folder			Directory
Features and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
APP appearance	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
Dreparties	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
Properties	WindowsFolder	Folder			Directory
Summary information	🕀 🛅 security	Folder			Directory

• Select Import files from the context menu of a folder, to which you want to import PowerShell script.

Package resources	Files and folders		426 file	es (142,0 MB) 丫	Collapse all	Show detai
Files and folders	Name		Туре	Size	Version	MSI table
📌 Shortcuts	TARGETDIR		Folder			Directory
🗞 Registry	DesktopFolder		Folder			Directory
Custom actions	ProgramFilesFolder		Folder			Directory
🐓 Drivers	PACE Suite (ID: INSTALLDIR)		Folder			Directory
Package configuration	App-V Generator	New subfolder	Folder			Directory
Features and components APP appearance	🗉 🔚 Docu Generator	Import files	Folder			Directory
	MSI Editor (ID: EDITORINS	Properties F2	Folder			Directory
	P appearance B MSI Editor (ID: EDITORINS Properties F2 Set as INSTALL DIP	Folder			Directory	
opgrades		Maya to folder	Folder			Directory
Properties		Remove Del	Folder			Directory
Summary information	Prerequisites	Remove Del	Folder			Directory
- Media settings	EULA.rtf	Go to Directory table	RTF	119,8 KB		File
	Release notes.pdf		PDF	1,1 MB		File
	Release notes.xps		XPS	1,2 MB		File
	ProgramMenuFolder		Folder			Directory
	PACE Suite (ID: SHORTCUTLOC)	ATION)	Folder			Directory
	PACE Suite (ID: InfopulseProgra	amMenuFolder)	Folder			Directory
	PACE Suite (ID: DOCUSHORTCU	JTLOCATION)	Folder			Directory
	PACE Suite (ID: EDITORSHORTC	CUTLOCATION)	Folder			Directory
	WindowsFolder		Folder			Directory
	E Security		Folder			Directory



- Click Add -> Add files to choose the script. • Import files \times Files Settings Import COM Files to import Name Target path Size Add files Add folder Add 🔺 Files: 0 Remove Cancel < Back Next >
- Choose your PowerShell script and click Open.

Select files to add	to MSI					×
← → • ↑ 📘	> Thi	s PC > Documents >	Script	ٽ ~	Search Script	Q
Organize 🔻 🛛 Ne	ew folde	r				
🕹 Quick access		Name	^		Date modified	Туре
Desktop	*	📓 psscript.ps1			2/21/2017 3:32 PM	Windows PowerS
Downloads	A					
🖆 Documents	Ŕ					
Pictures	A					
OneDrive						
📃 This PC						
💣 Network						
• 4 Homegroup						
		<				>
	File na	me: psscript.ps1		~	All files (*.*)	~
		[FFeba.			<u>O</u> pen	Cancel



• Tick the **Complete operation with default settings** option and click **Finish**. Alternatively, you can go throught all the steps and choose the desired settings.

lmport files				5			х
		•					
	I	Files	Settings	Import COM			
Files to import							
Name	Size	Target path					
psscript.ps1	1,2 KB	ProgramFiles	Folder\PACE Suite	\psscript.ps1			
							_
Add Remove						Files	:1
Complete operation with defa	ult settings				Next >	Cancel	

- Go to the Package Designer -> Custom actions tab.
 - INSI Editor PACE_v5.0.0.msi

■ MENU Package Summary	Package Designer Tables Editor			
🕶 🗁 Package resources	Custom action flow		20 items 🝸 Coll	apse all Show details
Files and folders	Actions (in order of execution)	Type and options	Basic type	Execution mode
reference to the second	🖃 🔚 Normal (simple) installation	-	-	-
🗞 Registry	🖲 🔚 Ul sequence	-	-	-
> Custom actions	🖃 🔚 Execution sequence	-	-	-
👉 Drivers	SetWIX_IS_NETFRAMEWORK_472_OR_LATER_INSTALLED	51	Set a new property value	Immediate
 Package configuration 	> DisablePaceDowngrade	19	Display an error message	Immediate
	SetARPINSTALLLOCATION	51	Set a new property value	Immediate
	SetHELPSHORTCTLOCATION	51	Set a new property value	Immediate
	> SetSHORTCUTLOCATION	51	Set a new property value	Immediate
Upgrades	SetSERIALKEYNULL 51		Set a new property value	Immediate
P Properties	<>> SchedXmlConfig 1		Call a function from DLL	Immediate
Summary information	InstallDotNetVersion	3282	Launch an EXE	Deferred
📇 Media settings	RemoveWebinstallerCache	3238	Run a VBScript	Deferred
	E 🗁 Administrative installation -		-	-
	Ul sequence	-	-	-
	Execution sequence	-	-	-
	Advertisement installation	-	-	-
	Execution sequence	-	-	-
	🗄 🔚 Not sequenced	-	-	-
	Add 🔺 Edit Remove 🔨 🗸			



_

×

Select Add -> Custom action from the toolbox.

 MSI Editor - PACE_v5.0.0.msi

MENU Package Summary	Package Designer Tables Editor			
🕶 🖿 Package resources	Custom action flow		20 items 💙 Colla	ose all Show details
Files and folders	Actions (in order of execution)	Type and options	Basic type	Execution mode
reference to the second	🖃 j Normal (simple) installation	-	-	-
🗞 Registry	🗉 📷 UI sequence	-	-	-
> Custom actions	🖃 🚞 Execution sequence	-	-	-
💉 Drivers	SetWIX_IS_NETFRAMEWORK_472_OR_LATER_INSTALLED	51	Set a new property value	Immediate
Package configuration	> DisablePaceDowngrade	19	Display an error message	Immediate
Eastures and components	> SetARPINSTALLLOCATION	51	Set a new property value	Immediate
ADD as a second components	> SetHELPSHORTCTLOCATION	51	Set a new property value	Immediate
AKP appearance	SetSHORTCUTLOCATION	51	Set a new property value	Immediate
Upgrades	SetSERIALKEYNULL	51	Set a new property value	Immediate
Properties	SchedXmlConfig	1	Call a function from DLL	Immediate
Summary information	InstallDotNetVersion	3282	Launch an EXE	Deferred
📇 Media settings	RemoveWebinstallerCache	3238	Run a VBScript	Deferred
	Administrative installation	-	-	-
	🗁 UI sequence	-	-	-
	Execution sequence	-	-	-
	Advertisement installation	-	-	-
	Execution sequence	-	-	-
	🗉 🗁 Not sequenced	-	-	-
	Custom action Standard actions			
	Add 🔺 Edit Remove 🔨 🗸			

• Select Launch an EXE and click Next.

Add/Edit custom action	_		×					
• • • • • • • • • • • • • • • • • • • •								
Basic type Resources Options Sequencing								
Basic type of custom action								
 Call a function from DLL A custom action that calls a function defined in a dynamic-link library (DLL) written in C or C++. 								
Launch an EXE A custom action that launches an executable file.								
O Run a JScript A custom action that calls functions that are written in JScript.								
 Run a VBScript A custom action that calls functions that are written in VBScript. 								
[P] O Set a new property value A custom action that sets a new property value in run-time depending on specified conditions.								
 Set a new folder path A custom action that changes the installation path of a folder in run-time depending on specified 	l conditio	ns.						
 O Display an error message A custom action that displays a specified error message, returns failure, and then terminates the i 	nstallatio	n.						
K Back Next >		Cancel						



-

• Select the Located on the system at the path, which is specified in the Command line field, in the selected working folder and click Browse.

Add/Edit custom action						_		×
								
	Basic type	Resources	Options	Sequenci	ng			
Launch an EXE								
 Stored in the temporary bin Binary 	nary stream							
					>	Nev	w binary	(
O Installed by this package al File	ong with this appl	lication						
						Br	owse	
 Located on the system at the Property 	he path, which is s	specified in the pro	operty					
					>	New	propert	ty
 Located on the system at the Working folder 	he path, which is s	specified in the Co	mmand line fiel	d, in the selec	ted working f	older		
					0	Br	owse	
Command line strin	g for execut	able						
Command line								
					•			0
NOTE Quotation marks must references to properties, files, online.	be used around lo folders, environm	ong file names or lent variables or o	paths. The value ther formatted t	e is treated as text attributes	formatted tex . See formatte	t and maj d text de	y contai scriptior	n
				< Back	Next >		Cancel	



• Select a script-containing folder, to which you have imported the PowerShell script and then, click Select.

Select a folder		×
Name		
TARGETDIR		
DesktopFolder		
ProgramFilesFolder		
🖃 🔜 PACE Suite		
App-V Generator		
🗉 🔚 Docu Generator		
🗉 🔚 MSI Editor		
MSI Editor		
🗉 🔚 MSI Generator		
MSI Generator		
Prerequisites		
Test		
ProgramMenuFolder		
PACE Suite		
WindowsFolder		
security		
T Select Cancel		



 Enter the *powershell.exe -ExecutionPolicy Bypass -File* "*<script file name>.ps1*" to the Command line field, where *<script file name>* is replaced with a name of your PowerShell script (e.g. psscript.ps1). Then, click Next.

Add/Edit custom action						×
¢•						
Basic type Resour	ces Options	Seque	ncing			
Launch an EXE						
 Stored in the temporary binary stream Binary 						
			~	Ne	w binary	r
O Installed by this package along with this application File						
				В	rowse	
 Located on the system at the path, which is specified in Property 	the property					
			~	Nev	v propert	ty
 Located on the system at the path, which is specified in Working folder 	the Command line	field, in the se	elected working	folder		
ProgramFilesFolder\PACE Suite (ID: INSTALLDIR)				В	rowse	
Command line string for executable						
powershell.exe -ExecutionPolicy Bypass -File "psscript.ps1						
NOTE Quotation marks must be used around long file nar references to properties, files, folders, environment variabl online.	nes or paths. The va es or other formatte	lue is treated ed text attribu	as formatted te tes. See formati	ext and ma ted text de	ay contai escriptior	n 1
		< Back	Next >		Cancel	

NOTE -ExecutionPolicy Bypass parameter was added to make sure the custom action will always execute regardless of the current execution policy on the system.



• Select the Deferred execution mode, and the Run in system context option. From the Return processing options list, choose An asynchronous execution that waits for exit code at the end of the sequence, and click Next.

Add/Edit custom action							×
							
	Basic type	Resources	Options	Sequenci	ng		
Identification							
Action name							
CA_Run_PowerShell							
Execution and proce	ssing settin	gs					
Deferred (Execute the action w	while the system is	s being modified)					~
 Run in logged-on user's con Run in system context Run with user impersonation Scheduling option 	ntext n during per-mac	hine installs on a	terminal server				
Always execute (default)							\sim
Return processing option							
An asynchronous execution th	at waits for exit o	ode at the end of	the sequence			 	~
Write the custom action det	ails to the log file					 	
Run JScript or VBScript in 64	1-bit environmen	t					
				A De els	N	6	
				< Back	Next >	Cance	1



 From the Execution sequence (recommended) list, select Run after InstallFiles (or any other position, located below). If needed, specify the execution conditions - enter them manually or choose from the dropped list. Click Finish to add your custom action for running PowerShell script.

leaded Add/Edit custom action						_			×
⊘ ⊘									
Basic type Resource	25	Options		Sequenci	ng				
Normal (simple) installation									
UI sequence		UI sequence co	onditio	ons					
Do not run in this sequence	\sim								
Execution sequence (recommended)		Execution sequ	uence	conditions					
Run after InstallFiles	~								
Administrative installation									
UI sequence		UI sequence co	onditio	ons					
Do not run in this sequence	\sim								
Execution sequence	1	Execution sequ	uence	conditions					
Do not run in this sequence	~								
NOTE The UI sequences, which typically contain standard ac the user interface level is set to Reduced or Full; and, respec An administrative installation is typically initiated by a netwo	tions r tively rk adn	related to co are skipped ministrator to	ollectir if leve o assig	ng system i el is set to b gn and insta	nformatic basic UI o all applica	on, are on r no UI. ations for	indiv	ocessec idual us	d if sers
and groups of users.									
I ne advertisement installation sequence is not present on th	ns step	p because it	canno	ot be used	tor custo	m actions	5.		
For information on the sequence conditions, see Conditions	ai stati	ement synta	ax oni	ine.					
			<	Back	Finis	sh		Cance	I

• For saving your package, select Save from the MENU.



3.7.7.3 Edit Custom Action

Edit basic type, resources, sequence and other settings of the existing custom action.

• Go to the Package Designer -> Custom actions tab.

■ MENU Package Summary P				= U X
	Package Designer Tables Editor			
✓ Package resources Cus	stom action flow		20 items 💙 Collaps	se all Show details
Files and folders Acti	ons (in order of execution)	Type and options	Basic type	Execution mode
🕐 Shortcuts 📃	👕 Normal (simple) installation	-	-	-
🗞 Registry	🗉 🗁 VI sequence	-	-	-
	🖃 🚞 Execution sequence	-	-	-
🐓 Drivers	SetWIX_IS_NETFRAMEWORK_472_OR_LATER_INSTALLED	51	Set a new property value	Immediate
Package configuration	> DisablePaceDowngrade	19	Display an error message	Immediate
Eastures and components	SetARPINSTALLLOCATION	51	Set a new property value	Immediate
ADD approximately and components	SetHELPSHORTCTLOCATION	51	Set a new property value	Immediate
	SetSHORTCUTLOCATION	51	Set a new property value	Immediate
Upgrades	SetSERIALKEYNULL	51	Set a new property value	Immediate
P Properties	SchedXmlConfig 1	1	Call a function from DLL	Immediate
Summary information	InstallDotNetVersion	3282	Launch an EXE	Deferred
🖂 Media settings	RemoveWebinstallerCache 3238		Run a VBScript	Deferred
-	Administrative installation	-	-	-
	🗁 UI sequence	-	-	-
	Execution sequence	-	•	-
=	Advertisement installation	-	•	-
	Execution sequence	-	-	-
	The sequenced	-	-	-

• Select Edit from the context menu of a custom action you want to edit.

MSI Editor - PACE_v5.0.0.msi						- 🗆 ×
	Package Designer Table	s Editor				
🕶 🗁 Package resources	Custom action flow				20 items 🝸 Collap	se all Show details
Files and folders	Actions (in order of execution)			Type and options	Basic type	Execution mode
Shortcuts	🖃 🚞 Normal (simple) installation			-	-	-
🗞 Registry	🗉 🚞 UI sequence			-	-	-
Custom actions	🖃 🚞 Execution sequence			-	-	-
🐓 Drivers	SetWIX_IS_NETFRAME	WORK_472_OR_LATER_INSTALLED		51	Set a new property value	Immediate
🗕 🗁 Package configuration	DisablePaceDowngrade	e		19	Display an error message	Immediate
Eeatures and components	SetARPINSTALLLOCATI	ON		51	Set a new property value	Immediate
ARP appearance	SetHELPSHORTCTLOCA	ATION		51	Set a new property value	Immediate
	SetSHORTCUTLOCATIC	IN		51	Set a new property value	Immediate
Proportion	SetSERIALKEYNULL			51	Set a new property value	Immediate
	SchedXmlConfig			1	Call a function from DLL	Immediate
Summary Information	InstallDotNetVersion			3282	Launch an EXE	Deferred
Media settings	RemoveWebinstallerC	Edit	F2	3238	Run a VBScript	Deferred
	Administrative installation	Move to position		-	-	-
	Ul sequence	Remove	Del	-	-	-
	Execution sequence	Remove with all references		-	-	-
				-	-	-
	Execution sequence	Go to CustomAction table	⊢	-	-	-
	Inot sequence	Go to InstallExecuteSequence ta	ble	-	-	-
	Add 🔺 Edit	Remove 🔨 🗸				



• Define a new basic type of your custom action or leave the exising one and click Next.

Add/Edit custom action			×
• • • • • • • • •			
Basic type Resources Options Sequencing			
Basic type of custom action			
 Call a function from DLL A custom action that calls a function defined in a dynamic-link library (DLL) written in C or C++. 			
EXE A custom action that launches an executable file.			
O Run a JScript A custom action that calls functions that are written in JScript.			
Run a VBScript A custom action that calls functions that are written in VBScript.			
[P] ^O Set a new property value A custom action that sets a new property value in run-time depending on specified conditions.			
 Set a new folder path A custom action that changes the installation path of a folder in run-time depending on specified 	conditio	ns.	
 O Display an error message A custom action that displays a specified error message, returns failure, and then terminates the in 	nstallatio	n.	
Next >		Cancel	



• On the second step you can specify a new file, launched by the custom action. Click Next to continue.

NOTE The wizard displays only compatible fields and options for the previously selected custom action basic type.

Add/Edit custom action						—		×
	~ —							
	Basic type	Resources	Options	Sequencing				
Launch an EXE								
 Stored in the temporary b Binary 	pinary stream							
					\sim	Nev	v binary	/
Installed by this package a File	along with this app	lication						
ProgramFilesFolder\PAC	E Suite\Prerequisite	s\NDP462-KB3151	802-Web.exe (I	D: NDP462KB315180	2Weł	Bro	owse	
 Located on the system at Property 	the path, which is s	specified in the pro	operty					
					\sim	New	proper	ty
 Located on the system at Working folder 	the path, which is s	specified in the Co	mmand line fiel	d, in the selected wo	orking fol	der		
						Bro	owse	
Command line stri	ng for execut	able						
NOTE Quotation marks mus references to properties, file: online.	t be used around k s, folders, environm	ong file names or lent variables or o	paths. The value ther formatted t	is treated as formati ext attributes. See fo	ted text a	and may text de:	y conta scriptio	in n
				K Back Ne	ext >	-	Cance	



• At the Options step you can set an Action name, select Execution mode (Immediate, Deferred, Rollback and Commit), execution context, scheduling, return processing and other options. Then, click Next.

NOTE All options that are incompatiable with the previously selected settings are disabled.

Add/Edit custom action		1	I				×
			_				
	Basic type	Resources	Options	Sequencing			
Identification							
Action name							
InstallDotNetVersion							
Execution and proce	essing settin	gs					
Deferred (Execute the action	while the system is	s being modified)					~
 Run in logged-on user's co Run in system context Run with user impersonatio Scheduling option 	ntext on during per-mac	hine installs on a t	terminal server				
Always execute (default)							\sim
Return processing option							
An asynchronous execution the	hat does not wait f	for completion					~
Write the custom action de	tails to the log file						
Run JScript or VBScript in 6	4-bit environment	t					
				K Back Next	>	Cance	l



 At the last step, you can change a position, where you would like to run your custom action. The sequence drop-down list allows you to select only compatible positions, taking into account your previously selected options. Also, you free to update the execution conditions either by entering them manually or choosing from the drop-down list. Click Finish to update your custom action.

NOTE Incompatible sequences are disabled.

Add/Edit custom action							×
Ø							
Basic type	Resources	Options	Sequenci	ng			
Normal (simple) installation							
UI sequence		UI sequence cond	litions				
Do not run in this sequence	~						
Execution sequence (recommended)		Execution sequer	ce conditions				
Run after PublishProduct	~	(NOT Installed) AND (NOT	WIX_IS_NET	FRAMEW	ORK_46	2_OR
Administrative installation							
UI sequence		UI sequence cond	litions				
Do not run in this sequence	\sim						
Execution sequence		Execution sequer	ce conditions				
Do not run in this sequence	~						
NOTE The UI sequences, which typically contain the user interface level is set to Reduced or Full; An administrative installation is typically initiated	standard actions and, respectively by a network ad	related to colle are skipped if I ministrator to a	cting system i evel is set to b ssign and insta	nformation, basic UI or r all applicatio	, are only no UI. ons for inc	processe dividual u	ed if users
and groups of users.							
The advertisement installation sequence is not p	present on this ste	p because it ca	nnot be used	for custom	actions.		
For information on the sequence conditions, see	e Conditional Sta	tement Syntax	online.				
			< Back	Finish		Cance	el

• For saving your package, select Save from the MENU.



3.7.8 Drivers

Choose a scenario that better suits your needs:

- Add Driver, described in section 3.7.8.1 Add a new device driver with the help of Driver Install Frameworks (DIFx) tools, a standard solution recommended by Microsoft.
- Edit Driver, described in section 3.7.8.2 Edit installation options, conditions and target architecture of the existing device driver.

3.7.8.1 Add Driver

Add a new device driver with the help of Driver Install Frameworks (DIFx) tools, a standard solution recommended by Microsoft.

• Go to the Package Designer -> Drivers tab.

MSI Editor - PACE_v5.0.0.msi			- 🗆 ×
	Package Designer Tables Editor		
🕶 🖿 Package resources	Drivers	0 items	Show details
Files and folders	Drivers (in order of installation)	INF file	Options
🕐 Shortcuts			
🗞 Registry			
Custom actions			
🐓 Drivers			
🕶 🛅 Package configuration			
Features and components			
🖵 ARP appearance			
😅 Upgrades			
Properties			
Summary information			
📇 Media settings			
	Add Edit Remove 🔨 🗸		





• Click Add, located in the toolbox.



• Click Browse in the opened wizard.

Add driver					— D	×
	•					
	Sources	Sources settings	Installation options			
Driver sources						
Driver installation file (INF)						
				9	Browse	
Driver files						
Select all/none						
Refresh						
NOTE The only ticked files will be incorpora	ated into the pac	kage.				
				No. 4 N	Caract	
				INEXT >	Cancel	



• Choose driver installation (.INF) file and click Open.

Select INF file						
→ * ↑	> This P	C > Downloads > Driver >	~	ර් Search Dr	iver	
rganize 🔻 🛛 New	/ folder					
- Ouick accord		Name	Date modified	Туре	Size	
		DRVSETUP64	3/2/2018 7:47 PM	File folder		
	7	CH341SER.INF	8/8/2014 1:00 AM	Setup Inform	ation	7 KB
 Documents Pictures OneDrive This PC Network Homegroup 	*					
	File <u>n</u> ame	e: CH341SER.INF		→ INF file (.inf) (*.inf) :n	Cancel

• Ensure that all files, required by driver, exist on the file system, and click Next. Note that missing files will be displayed with the validation error.

Add driver						×
	•					
	Sources	Sources settings	Installation options			
Driver sources						
Driver installation file (INF)						
C:\Users\pace\Desktop\Sources\Driv	ver\CH341SER\CH3	41SER.INF			Browse	
Driver files						
Select all/none						
CH341SER.CAT						
✓ CH341S98.SYS						
CH341PT.DLL						
CH341SER.SYS						
CH341S64.SYS						
CH341SER.VXD						
Refresh						
NOTE The only ticked files will be inco	provided into the p	oackage.				
-		-				
				Next >	Cance	1



 Select a Destination folder for the driver files (the wizard additionally creates a subfolder in the selected folder). Also, you can manually specify a Target feature, to which the created driver components will be assigned. Then, click Next.

Add driver					_ □	×
	Ø					
	Sources	Sources settings	Installation options			
Sources settings						
Destination folder for driver files						
ProgramFilesFolder\PACE Suite (ID:	INSTALLDIR)				Browse	
Target feature						
<new feature=""></new>				\sim	New featu	re
Manage features automatically						
Prefix for components names						
Driver_						
NOTE Prefix in components names is Microsoft packaging best practices.	used to make it ea:	sier for you to fir	d all driver components,	created accor	ding to the §	
			< Back	Next >	Cancel	

 At the last step, you can select driver installation options, used by Driver Install Frameworks (DIFx) tool, specify installation conditions, which will be used for the main driver component (see <u>Conditional Statement Syntax</u>), and select a target architecture, which defines whether a 32-bit or 64-bit DIFx tool will be used. Click Finish to add the driver. NOTE One package can not contain both 32-bit and 64-bit DIFx tool, and as a result, one

package can not contain both 32-bit and 64-bit DIFX tool, and as a result, one package can not install driver on both platforms. Use separate packages if you need to install



Add driver				— 🗆	×
					
	Sources	Sources settings	Installation options		
Driver installation option	S				
Overwrite the existing driver Force the installation of a new driv one.	er, even if the drive	er that is current	/ installed on a device is a be	etter match than the ne	N
Prompt the user to connect the de Display this prompt only if a device	vice to the compu that matches the	ter driver is not cor	nected to the computer.		
Add a separate entry to Programs	and Features in Co	ontrol Panel			
□ Install unsigned driver and driver t For more information about this ty	hat have missing fi pe of installation, s	les ;ee Installing Uns	igned Driver Packages in Leg	gacy Mode online.	
Remove driver files from the system This option should be used with carequired by any other driver packar system.	n driver store on u aution and should l ge or application.	ininstallation be used only if tl Starting with Wi	ne caller can verify that a bina ndows 7, this flag setting is ig	ary file in the system is gnored by the operating	not
Installation conditions					
Target architecture					
Install drivers only on 64-bit platform	s				~
NOTE Driver Install Frameworks (DIFx single package. Use separate package) tools do not supp es for each of the p	oort installation o platforms.	f drivers on both 64-bit and	32-bit platforms using a	Э
			K Back	inish Cance	

٥

For saving your package, select Save from the MENU. •





3.7.8.2 Edit Driver

Edit installation options, conditions and target architecture of the existing device driver.

• Go to the Package Designer -> Drivers tab.

MSI Editor - PACE_v5.0.0.msi		
MENU Package Summary	Package Designer Tables Editor	
Package resources	Drivers 1 item 🛽	Show detai
Files and folders	Drivers (in order of installation) INF file	Options
🕐 Shortcuts	Driver_CH341SER.INF CH341SER.INF	0
🗞 Registry		
Custom actions		
🐓 Drivers		
Package configuration		
Features and components		
ARP appearance		
🗲 Upgrades		
Properties		
Summary information		
📥 Media settings		
	Add Edit Remove 🔨 🗸	

• Select Edit from the context menu of a driver you want to edit.

MSI Editor - PACE_v5.0.0.msi					- 🗆 ×
■ MENU Package Summary	Package Desig	ner Tables Editor			
 MENU Package Summary Package resources Files and folders Shortcuts Registry Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information Media settings 	Package Desig Drivers Drivers (in order of in ✓ Driver_CH341SER	ner Tables Editor stallation) INF Edit Remove Go to Component table Go to MsiDriverPackage	F2 Del e es table	INF file CH341SER.INF	1 item V Show details Options 0
	Add	Edit Remov	e ^ ~		

 In the opened window you can change driver installation options, used by Driver Install Frameworks (DIFx) tool, specify installation conditions, which will be used for the main driver component (see <u>Conditional Statement Syntax</u>), and change a target architecture, which defines whether a 32-bit or 64-bit DIFx tool will be used. Click Save to update the driver settings.

NOTE One package can not contain both 32-bit and 64-bit DIFx tool, and as a result, one package can not install driver on both platforms. Use separate packages if you need to install driver on both 32-bit and 64-bit platforms.

Edit driver	×
Driver installation options	
Overwrite the existing driver Force the installation of a new driver, even if the driver that is currently installed on a de	vice is a better match than the new one.
Prompt the user to connect the device to the computer Display this prompt only if a device that matches the driver is not connected to the con	iputer.
Add a separate entry to Programs and Features in Control Panel	
Install unsigned driver and driver that have missing files For more information about this type of installation, see Installing Unsigned Driver Pack	ages in Legacy Mode online.
Remove driver files from the system driver store on uninstallation This option should be used with caution and should be used only if the caller can verify required by any other driver package or application. Starting with Windows 7, this flag system.	that a binary file in the system is not setting is ignored by the operating
Installation conditions	
Target architecture	
Install drivers only on 64-bit platforms	~
NOTE Driver Install Frameworks (DIFx) tools do not support installation of drivers on both single package. Use separate packages for each of the platforms.	54-bit and 32-bit platforms using a

• For saving your package, select Save from the MENU.





3.7.9 Features and Components

Choose a scenario that better suits your needs:

- Add Feature, described in section 3.7.9.1 Add a new root feature or subfeature to the package.
- Add Component, described in section 3.7.9.2
 Add a new component to one or many features and set the component properties.
- Move Feature, Component, described in section 3.7.9.3 Move a feature or a component to another feature.
- Edit Feature Properties, described in section 3.7.9.4 Edit feature properties such as ID, title, folder, installation state, type, display options and advertisement.
- Edit Component Properties, described in section 3.7.9.5 Edit component properties such as name, GUID, conditions, key path, attributes and relationship with features.
- Detect Empty Components, described in section 3.7.9.6 Find empty components with no linked resources in order to remove them.
- Review Component Resources, described in section 3.7.9.7 Review what resources (files, registry, shortcuts, etc.) are linked with the component.

3.7.9.1 Add Feature

Add a new root feature or subfeature to the package.



Go to the Package Designer -> Features and components tab.







• Select New feature from the context menu of a feture, where you want to create a new feature. For creating a root feature, use any feature and later you can clean-up its parent feature.

BMSI Editor - PACE_v5.0.0.msi				– 🗆 X
■ MENU Package Summary	Package Designer Tables Editor			
 Package resources Files and folders Shortcuts Registry Custom actions Drivers Package configuration 	Features and components Name Image: Docu Generator Core (ID: DocuGenerator) Image: Infopulse PACE Suite (ID: MsiGenerator) Image: Msi Editor (ID: MsiEditor) Image: PACE Suite (ID: ProductFeature) Image: Frame New feature		Type Feature (Install, Visible and col Feature (Install, Visible and ex Feature (Install, Visible and ex Feature (Install, Visible and col Feature (Install, Visible and col	KeyPath Collapse all Show details
 Features and components ARP appearance Upgrades Properties Summary information Media settings 	Acc E S A	θ	Component Feature (Install, Visible and col Component Component Component Component Feature (Install, Visible and exp	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054 ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf) ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release, ProgramFilesFolder\PACE Suite\Release notes.xps (ID: release, KKCU\Software\[Manufacturer]\[ProductName]\RemoveFile\W
	Add Remove		Component	K HKLM\SOFTWARE\[Manufacturer]\[ProductName]\[ProductVe

• Using the **Properties** window, update a feature title, identifier and select the necessary behavior and appearance settings. For creating a root feature, click on the **Make this feature**



root link, located below the Parent feature field. Afterwards, click Save.

p Properties			- 🗆	×
MSI table: 'Fea	iture			
Title		Identifier		
Newfeature		Newfeature		
Parent feature				
PACE Suite (ID: ProductFeature	2)		Browse	
Make this feature root				
Description				
Destination folder				
			Browse	
Reset				
Behaviour and appea	rance			
Behaviour and appea	Installation type			
Behaviour and appea Initial Installation state	Installation type	its locally		~
Behaviour and appea Initial Installation state Install	Installation type Install feature componer Advertise	its locally		~
Behaviour and appea Initial Installation state Install Display option Visible and collapsed	Installation type Install feature componer Advertise Allow advertise	its locally		~
Behaviour and appea Initial Installation state Install Display option Visible and collapsed Disallow user to change feat	Installation type Install feature componer Advertise Allow advertise	its locally		~
Behaviour and appea Initial Installation state Install Display option Visible and collapsed Disallow user to change feature	Installation type Install feature componer Advertise Allow advertise ure state to Absent	its locally		~

For saving your package, select Save from the MENU.

 MSI Editor - PACE_v5.0.0.msi

MENU Package Summary	Package Designer	Tables Editor
New MSI	Ctrl + N	
New MST		Complexity estimation
Open	Ctrl + O	
Open recent	•	
Apply MST to MSI		
Remove MST from MSI		
Save	Ctrl + S	
Save as		
Create MSP against original MSI.		
Generate package report	-	Complexity level:
Deploy to SCCM		Medium
Active scripting		
Compare packages		
Edit	•	
Import and export	•	
Validation	•	
Help	•	
Quit	Alt + F4	

3.7.9.2 Add Component

Add a new component to one or many features and set the component properties.

• Go to the Package Designer -> Features and components tab.

MSI Editor - PACE_v5.0.0.msi			- 🗆 ×
MENU Package Summary	Package Designer Tables Editor		
🕶 🖿 Package resources	Features and components		🔠 🐸 💙 Collapse all Show details
Files and folders	Name	Туре	KeyPath
🕐 Shortcuts	Docu Generator Core (ID: DocuGenerator)	Feature (Install, Visible and col	
🗞 Registry	Infopulse PACE Suite (ID: MsiGenerator)	Feature (Install, Visible and exp	
Custom actions	Msi Editor (ID: MsiEditor)	Feature (Install, Visible and exp	
🗩 Drivers	PACE Suite (ID: ProductFeature)	Feature (Install, Visible and col	
Package configuration	Framework 4.7.2 (ID: NDP472)	Feature (Install, Visible and col	
Eastures and components	Image: MDP472KB4054531Web.exe	Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054
	PACE Suite user manual (ID: PaceManual)	Feature (Install, Visible and col	
	🗉 🔛 EULA.rtf	Component	ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
Opgrades		Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release_
Properties		Component	ProgramFilesFolder\PACE Suite\Release notes.xps (ID: release_
Summary information	🗉 🔛 user_manual 🕴 🌖	Component	& HKCU\Software\[Manufacturer]\[ProductName]\RemoveFile\№
📥 Media settings	PACE_Complete (ID: PACE_Complete)	Feature (Install, Visible and exp	
	🕀 🄛 INI_config.ini1	Component	HKLM\SOFTWARE\[Manufacturer]\[ProductName]\[ProductVe
	Add 🔺 Remove		

• Select **New component** from the context menu a feature, where you want to create a new component.

B MSI Editor - PACE_v5.0.0.msi					- 🗆 X
■ MENU Package Summary	Package Desi	gner Tables Editor			
🕶 🗁 Package resources	Features and	d components			🔠 🕨 🟹 Collapse all Show details
Files and folders	Name			Туре	KeyPath
Shortcuts	🕀 📑 Docu Gener	ator Core (ID: DocuGenerator)		Feature (Install, Visible and col	
🗞 Registry	Infopulse P	ACE Suite (ID: MsiGenerator)		Feature (Install, Visible and exp	
Custom actions	🗈 📑 Msi Editor	ID: MsiEditor)		Feature (Install, Visible and exp	
💉 Drivers	PACE Suite	(ID: ProductFeature)	_	Feature (Install, Visible and col	
 Package configuration 	🖃 🔠 Framei	New feature		Feature (Install, Visible and col	
Eestures and components	🕀 🔛 NC	New component		Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054
	🖃 📑 PACE S	Export to Merge Module		Feature (Install, Visible and col	
G Upgrades	🗉 🔛 EU	Dreparties C2	-	Component	ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
Properties	🕀 🔛 rel	Properties F2		Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release
Fioperales	🕀 🔛 rei	Nove to		Component	ProgramFilesFolder\PACE Suite\Release notes.xps (ID: release
Summary Information	🕀 🔛 USe	Kemove Dei		Component	HKCU\Software\[Manufacturer]\[ProductName]\RemoveFile\]
i Media settings	PACE_Com	Go to Feature table		Feature (Install, Visible and exp	0
	INI_COI∗	iyanı i		Component	HKLM\SOFTWARE\[Manufacturer]\[ProductName]\[ProductVe
	Add 🔺	Remove			
	Add 🔺	Remove			



Using the Properties window, update a component name, GUID and select the necessary
installation conditions, target folder. Note that to select a key path from files or registry, this
component should contain these resources. Switch to the Attributes tab to manage
component attributes and define new or change existing relationshipts between this
component and features on the Relationships tab. Afterwards, click Save.

Properties	_		×
General Attributes Relationships			
MSI table: 'Component'			
Name			
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• For saving your package, select Save from the MENU.



3.7.9.3 Move Feature, Component

Move a feature or a component to another feature.

• Go to the Package Designer -> Features and components tab.

Package resources Features and components Collapse all Show de Files and folders Name Type KeyPath Shortcuts Image: Docu Generator Core (ID: DocuGenerator) Feature (Install, Visible and col Image: Collapse all Show de Registry Image: Docu Generator Core (ID: DocuGenerator) Feature (Install, Visible and col Image: Collapse all Show de Custom actions Image: Docu Generator (ID: MolEditor) Feature (Install, Visible and col Image: Collapse all Show de Porvers Image: Docu Generator (ID: MolEditor) Feature (Install, Visible and col Image: Collapse all Image: Collapse: Co	Package resources Features and components Collapse all Show de Files and folders Files and folders Name Type KeyPath Shortcuts Docu Generator Core (ID: DocuGenerator) Feature (Instail, Visible and col Image: Collapse all Show de O Losson actions Image: Collapse all Main Double PACE Suite (ID: MsiGenerator) Feature (Instail, Visible and col Image: Collapse all Show de Program Image: Collapse all Main Double PACE Suite (ID: MsiGenerator) Feature (Instail, Visible and col Image: Collapse all Show de Proke Program Image: Collapse all Main Double PACE Suite (ID: MsiGenerator) Feature (Instail, Visible and col Image: Collapse all Image: Collapse: Collapse all Image: Collapse: Colapse: Colapse: Collapse: Collapse: Collapse: Collapse	MENU Package Summary	Package Designer Tables Editor		
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• Select Move to from the context menu of a feature or component, which you want to move to another feature.

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• Choose a destionation feature from the tree and click Select.

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	Msi Editor (ID: MsiEditor)			
■ 🔡	PACE Suite (ID: ProductFeature)			
	PACE Suite user manual (ID: PaceManual)			
	Framework 4.6.2 (ID: NDP462)			
	Select Ca	ancel		

• For saving your package, select Save from the MENU.



3.7.9.4 Edit Feature Properties

Edit feature properties such as ID, title, folder, installation state, type, display options and advertisement.

Go to the Package Designer -> Features and components tab. •

MENU Package Summary Package Designer Tables Editor Package resources Features and components If if is and folders	Show detai
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Select Properties from the context menu of a feature, which you want to edit.

MSI Editor - PACE_V5.0.0.msi					- L X
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Using the Properties window, update the necessary feature properties, such as a feature title, • identifier, parent feature, installation state and type, display option and advertisement.



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• For saving your package, select Save from the MENU.

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Edit	•	
Import and export	•	
Validation	•	
Help	•	
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3.7.9.5 Edit Component Properties

Edit component properties such as name, GUID, conditions, key path, attributes and relationship with features.

• Go to the Package Designer -> Features and components tab.

Files and folders Name Type KeyPath Shortcuts Bill Docu Generator Core (ID: DocuGenerator) Feature (Install, Visible and col & Registry Bill Infopulse PACE Suite (ID: MsiGenerator) Feature (Install, Visible and exp V Custom actions Bill Bill Editor (ID: MsiGenerator) Feature (Install, Visible and exp V Custom actions Bill Bill Editor (ID: MsiEditor) Feature (Install, Visible and exp Package configuration Bill F ramework 47.2 (ID: NDP472) Feature (Install, Visible and col Package configuration Bill Msi Editor (ID: PackManual) Feature (Install, Visible and col Package configuration Bill Msi Editor (ID: PackManual) Feature (Install, Visible and col Package configuration Bill Msi Editor (ID: PackManual) Feature (Install, Visible and col Package configuration Bill Msi Editor (ID: PackManual) Feature (Install, Visible and col Package configuration Bill Msi Editor (ID: PackManual) Feature (Install, Visible and col Package configuration Bill Msi Editor (ID: PackManual) Feature (Install, Visible and col	Name Type KeyPath rtcuts Image: Constant of Core (ID: DocuGenerator) Feature (Install, Visible and col istry Image: Constant of Core (ID: MaiGenerator) Feature (Install, Visible and col tom actions Image: Constant of Core (ID: MaiGenerator) Feature (Install, Visible and col tom actions Image: Constant of Core (ID: MaiGenerator) Feature (Install, Visible and col ers Image: Configuration Feature (Install, Visible and col ures and components Image: Configuration Feature (Install, Visible and col ures and components Image: Configuration Image: Configuration appearance Image: Configuration Image: Configuration	
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Summary information 🛞 🔛 user_manual 🕘 Component 🚷 HKCU\Software\[Manufacturer]\[ProductName]\Remo	imary information 🛛 🔛 user_manual 🕘 Component 🚷 HKCU\Software\[Manufacturer]\[ProductName]\Remo	oveFile\/
Addia settings 🕒 👫 PACE_Complete (ID: PACE_Complete) Feature (Install, Visible and exp	Jia settings 🖶 🔮 PACE_Complete (ID: PACE_Complete) Feature (Install, Visible and exp	
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Select Properties from the context menu of a component, which you want to edit.
 MSI Editor - PACE_v5.00.msi

MSI Editor - PACE_v5.0.0.msi						- 🗆 X
	Package Designer	Tables Editor				
🕶 🖿 Package resources	Features and comp	onents				Collapse all Show details
Files and folders	Name				Туре	KeyPath
Shortcuts	🗉 🔡 Docu Generator Core (II): DocuGenerator)			Feature (Install, Visible and col	
🗞 Registry	Infopulse PACE Suite (ID: MsiGenerator)				Feature (Install, Visible and exp	
Custom actions	Image: Second				Feature (Install, Visible and exp	
💉 Drivers					Feature (Install, Visible and col	
 Package configuration 					Feature (Install, Visible and col	
Features and components	Image: Minimized Biology International In	21Mab ava			Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054
ARP appearance	PACE Suite user ma	New feature			Feature (Install, Visible and col	
G Upgrades		New component			Component	ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
Properties	🕀 🔛 release_notes.p	Export to Merge Module		Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release	
	🕀 🄛 release_notes.x	Properties F2 Move to	•	Component	ProgramFilesFolder\PACE Suite\Release notes.xps (ID: release	
	user_manual		Ð	Component	HKCU\Software\[Manufacturer]\[ProductName]\RemoveFile\]	
Media settings	PACE_Complete (ID: PA	Remove	Del		Feature (Install, Visible and exp	
	1 INI_config.ini1				Component	HKLM\SOFTWARE\[Manufacturer]\[ProductName]\[ProductVe
		Go to Component table				
	Add 🔺 Remov	'e				



• On the **General** tab of the **Properties** window, update the necessary component properties, such as a name, GUID, installation conditions, target folder and key path.

				– C]	×
Gen	eral	Attributes	Relationships			
Gen	crui	Attributes	Neladonships			
MSI table: '	Comp	onent'				
Name						
NDP462KB3151802Web.ex	e					
Component ID (GUID)						
{FBDF391A-FDAF-5A95-92	204-B2E1	07ABA817}		Ne	2W	
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Files destination folder ProgramFilesFolder\PACE NOTE Changing this folder KeyPath type	Suite\Pre	requisites(ID: PF changing the Tar	REREQUISITES) get folder for all the c	Brov	/se t files.	
Files destination folder ProgramFilesFolder\PACE NOTE Changing this folder KeyPath type File	Suite\Pre	requisites(ID: PF changing the Tar	REREQUISITES)	Brov	vse t files.	~
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• On the Attributes tab of the Properties window you can manage component attributes such as component installation type, bitness (set the 64-bit component attribute if your component installs resoruces to the 64-bit locations), management of the shared resources and so on.

Properties				_		×
	General	Attributes	Relationships			
Installation type						
Allow component	installation local	ly only				~
Allow this comp	ent onent to install re	esources to the 64	-bit locations.			
Shared DLL refe Increment the re	erence count eference count in	the shared DLL re	egistry of the compo	onent's k	ey file.	
Permanent Do not remove	this component f	from the system d	uring an uninstall.			
Transitive Re-evaluate the component Conditions upon a reinstall and install or remove the component respectively. See <u>Using Transitive Components online</u> .						
Never overwrite Do not install or reinstall the component if its KeyPath (file or registry) already exists.						
Disable registry Disable <u>Registry</u> component.	reflection Reflection on all	existing and new	registry keys affecte	d by this	S	
Uninstall on sup Prevent leaving	persedence (Wii orphan compone	ndows Installer 4. ents of the patch p	5 and higher) backage on the com	puter.		
Shared (Window Share this comp	ws Installer 4.5 a onent, installed o	and higher) on the system, am	ong other packages			
		Save	Cancel			



• The **Relationships** tab of the **Properties** window allows changing existing and adding new relationships between this component and features. Afterwards, click **Save**.

Properties				_	×
	General	Attributes	Relationships		
Define the relations component. Note t	hip between thi hat the compon	s component and ent could be link	d features, which will in ed with more than on	nstall this e feature	
Linked features					
Framework 4.6.2 (ID: NDP462)				
Add	Remove				
		Save	Cancel		

For saving your package, select Save from the MENU.
 MSI Editor - PACE_v5.0.0.msi

MENU Package Summary	Package Designer	Tables Editor	
New MSI	Ctrl + N	-	1
New MST		Com	plexity estimation
Open	Ctrl + O		
Open recent	•		
Apply MST to MSI			
Remove MST from MSI			
Save	Ctrl + S		
Save as			
Create MSP against original MSI			
Generate package report			Complexity level:
Deploy to SCCM			Medium
Active scripting			
Compare packages			
Edit	•		
Import and export	•		
Validation	•		
Help	•		
Quit	Alt + F4		

3.7.9.6 Detect Empty Components

Find empty components with no linked resources in order to remove them.

• Go to the Package Designer -> Features and components tab.

MSI Editor - PACE_v5.0.0.msi			- 🗆 ×
MENU Packago Summany	Package Designer Tables Editor		
- mento - rackage Summary	rackage Designer Tables Editor		
🕶 🗁 Package resources	Features and components		🔠 🐸 💙 Collapse all Show details
Files and folders	Name	Туре	KeyPath
reference Shortcuts	Docu Generator Core (ID: DocuGenerator)	Feature (Install, Visible and col	
🗞 Registry	Infopulse PACE Suite (ID: MsiGenerator)	Feature (Install, Visible and exp	
Custom actions	Msi Editor (ID: MsiEditor)	Feature (Install, Visible and exp	
🗩 Drivers	PACE Suite (ID: ProductFeature)	Feature (Install, Visible and col	
Package configuration	Framework 4.7.2 (ID: NDP472)	Feature (Install, Visible and col	
Eestures and components	Image: MDP472KB4054531Web.exe	Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054
	PACE Suite user manual (ID: PaceManual)	Feature (Install, Visible and col	
	🗉 🔛 EULA.rtf	Component	ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
Upgrades	release_notes.pdf	Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release_
Properties	release_notes.xps	Component	ProgramFilesFolder\PACE Suite\Release notes.xps (ID: release_
Summary information	🗉 🔛 user_manual 🕴 🌖	Component	🗞 HKCU\Software\[Manufacturer]\[ProductName]\RemoveFile\\v
📥 Media settings	PACE_Complete (ID: PACE_Complete)	Feature (Install, Visible and exp	
	🗈 🔛 INI_config.ini1	Component	🗞 HKLM\SOFTWARE\[Manufacturer]\[ProductName]\[ProductVe
	Add 🔺 Remove		

• Click on the 'feature' icon ., located near the Filters, to hide all features and display only components.

MSI Editor - PACE_v5.0.0.msi			– 🗆 X
■ MENU Package Summary	Package Designer Tables Editor		
🕶 🖿 Package resources	Features and components		Collapse all Show details
Files and folders	Name	Туре	KeyPath
Shortcuts	Docu Generator Core (ID: DocuGenerator)	Feature (Install, Visible and col	
🗞 Registry	Infopulse PACE Suite (ID: MsiGenerator)	Feature (Install, Visible and exp	
Custom actions	Msi Editor (ID: MsiEditor)	Feature (Install, Visible and exp	
💉 Drivers	PACE Suite (ID: ProductFeature)	Feature (Install, Visible and col	
🕶 🗁 Package configuration	Framework 4.7.2 (ID: NDP472)	Feature (Install, Visible and col	
Features and components	Image: MDP472KB4054531Web.exe	Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054
ARP appearance	PACE Suite user manual (ID: PaceManual)	Feature (Install, Visible and col	
	🕀 🔛 EULA.rtf	Component	ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
Properties	Le lease_notes.pdf	Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release
	Le	Component	ProgramFilesFolder\PACE Suite\Release notes.xps (ID: release
Madia antiinee	🕀 🔛 user_manual	Component	HKCU\Software\[Manufacturer]\[ProductName]\RemoveFile\]
i Media settings	PACE_Complete (ID: PACE_Complete)	Feature (Install, Visible and exp	
	🗄 🏬 INI_contig.ini 1	Component	HKLM\SOFTWARE\[Manufacturer]\[ProductName]\[ProductVe
	Add • Remove		



Apply the Hide non-empty items filter to display only empty components.
 MSI Editor - PACE_v5.0.msi

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	Package Designer Tables Editor				
🕶 🗁 Package resources	Features and components		:: • T	Evolution Chow petails	5
Files and folders	Name	Туре	KeyPath	Hide removed items	
Shortcuts	Cmp04CA7A47B5488B87FAD013D7298B7A1D	Component	ProgramFilesFolde	Hide non-empty items F15	
🗞 Registry	Cmp0E3A26096B7317162A8B752B2155241B	Component	ProgramFilesFolder	Clear filter RRO	
Custom actions					
Drivers					
 Package configuration 					
Features and components					
ARP appearance					
Upgrades					
Properties					
Summary information					
Media settings					
	nemore				

• To remove the component, select **Remove** from the context menu of the component.

MSI Editor - PACE_v5.0.0.msi							- U X
■ MENU Package Summary	Package Designer	Tables Editor					
🕶 🖿 Package resources	Features and comp	onents			88 🖬	T Expand all	Show details
Files and folders	Name			Туре	KeyPath		
Shortcuts	Cmp04CA7A47B5488B87	FAD013D7298B7A1D		Component	ProgramFilesFol	der\PACE Suite\MSI Edito	r\Tools (ID: dir33F15
🗞 Registry	Cmp0E3A26096B731716			Component	ProgramFilesFol	der\PACE Suite\MSI Edito	r (ID: MSIEDITORRO
> Custom actions		New feature					
🖌 Drivers		New component					
🕶 🛅 Package configuration		Export to Merge Modu	lie				
Features and components		Properties	F2				
ARP appearance		Move to					
🗲 Upgrades		Remove	Del				
Properties		Go to Component tabl	e				
Summary information							
🦳 Media settings							
	Add • Remov	'e					



For saving your package, select Save from the MENU. •



3.7.9.7 Review Component Resources

Review what resources (files, registry, shortcuts, etc.) are linked with the component.

• Go to the Package Designer -> Features and components tab.

MSI Editor - PACE_v5.0.0.msi				- 0
MENU Package Summary	Package Designer Tables Editor			
Package resources	Features and components			🗄 ษ 🟹 Collapse all Show detai
Files and folders	Name		Туре	KeyPath
📌 Shortcuts	Docu Generator Core (ID: DocuGenerator)		Feature (Install, Visible and col	
🗞 Registry	Infopulse PACE Suite (ID: MsiGenerator)		Feature (Install, Visible and exp	
Custom actions	Msi Editor (ID: MsiEditor)		Feature (Install, Visible and exp	
🗩 Drivers	PACE Suite (ID: ProductFeature)		Feature (Install, Visible and col	
Package configuration	Framework 4.7.2 (ID: NDP472)		Feature (Install, Visible and col	
Eeatures and components	Image: MDP472KB4054531Web.exe		Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054
ARP appearance	PACE Suite user manual (ID: PaceManual)		Feature (Install, Visible and col	
	🕀 🔛 EULA.rtf		Component	ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
Properties	release_notes.pdf		Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release
	release_notes.xps		Component	ProgramFilesFolder\PACE Suite\Release notes.xps (ID: release
Summary mormation	🕀 🄛 user_manual	U	Component	KCU\Software\[Manufacturer]\[ProductName]\RemoveFile\
a settings				



• Find the necessary component and click ■ to expand the component node and to review resources, linked with this component. Note that all resources are grouped by tables, from which these resources were read.

MSI Editor - PACE_v5.0.0.msi			- 🗆 ×
■ MENU Package Summary	Package Designer Tables Editor		
🔹 🗁 Package resources	Features and components		Collapse all Show details
Files and folders	Name	Туре	KeyPath
reference Shortcuts	Docu Generator Core (ID: DocuGenerator)	Feature (Install, Visible and col	
🗞 Registry	Infopulse PACE Suite (ID: MsiGenerator)	Feature (Install, Visible and exp	
Custom actions	Msi Editor (ID: MsiEditor)	Feature (Install, Visible and exp	
🗩 Drivers	PACE Suite (ID: ProductFeature)	Feature (Install, Visible and col	
- E Package configuration	Framework 4.7.2 (ID: NDP472)	Feature (Install, Visible and col	
Eastures and components	PACE Suite user manual (ID: PaceManual)	Feature (Install, Visible and col	
	🗉 🔛 EULA.rtf	Component	ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
	release_notes.pdf	Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release
D D D D D D D D D D D D D D D D D D D		Component	ProgramFilesFolder\PACE Suite\Release notes.xps (ID: release_
Properties	🖃 🄛 user_manual 🛛 🌔	Component	KCU\Software\[Manufacturer]\[ProductName]\RemoveFile\]
Summary information	Registry (1 item)	Linked resources	
A Media settings	RemoveFile (2 items)	Linked resources	
	Shortcut (1 item)	Linked resources	
	Add • Remove		

• Select **Properties** from the context menu of a group of component resources you want to review. Alternatively, review these resources in the **Details pane** clicking **Show details**.

MSI Editor - PACE_v5.0.0.msi				– 🗆 X
MENU Package Summary	Package Designer Tables E	ditor		
🕶 🗁 Package resources	Features and componen	ts		Collapse all Show details
Files and folders	Name		Туре	KeyPath
Shortcuts	Docu Generator Core (ID: DocuGe	nerator)	Feature (Install, Visible and co	1
🗞 Registry	Infopulse PACE Suite (ID: MsiGene	rator)	Feature (Install, Visible and ex	5
Custom actions	Msi Editor (ID: MsiEditor)		Feature (Install, Visible and ex	5
🖋 Drivers	PACE Suite (ID: ProductFeature)		Feature (Install, Visible and co	4
🕶 🗁 Package configuration	Framework 4.7.2 (ID: NDP472)		Feature (Install, Visible and co	
Eeatures and components	Image: Image: NDP472KB4054531Web.ex	e	Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054
ARP appearance	PACE Suite user manual (ID: Pa	aceManual)	Feature (Install, Visible and co	4
	🕀 🔛 EULA.rtf		Component	ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
Properties	🔛 release_notes.pdf		Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release
	🔛 release_notes.xps		Component	ProgramFilesFolder\PACE Suite\Release notes.xps (ID: release
Summary Information	🖃 🔛 user_manual		Component	KCU\Software\[Manufacturer]\[ProductName]\RemoveFile\
Media settings	Registry (1 item)		Linked resources	
	RemoveFile (2 items)	N 6 1	Linked resources	
	Shortcut (1 item)	New reature	Linked resources	
		New component		
		Export to Merge Module		
		Properties F	2	
		Move to		
		Remove E	el	
		Go to RemoveFile table		
	Add • Remove			

• Find the detailed information about the linked resources from one table in the grid view.

					—		
	_						
	MSI tabl	e: 'Remo	veFile'				
'on	tent						
	FileKey	Component	FileName	DirProperty	InstallMod	e	
Þ	INSTALLDIR	user manual		INSTALLDIR	3		٦
	InfopulseSh	user_manual		InfopulseProgramMenuFolder	2		
	APPVGENINSTALLDIR	user_manual		APPVGENINSTALLDIR	3		



3.7.10 ARP Appearance

Control how the package will be displayed in the App list (Add & Remove Programs).

• Go to the Package Designer ->ARP appearance tab.

MSI Editor - PACE_v5.0.0.msi		-	×
≡ MENU Package Summan	/ Package Designer Tables Editor		
 Package resources Files and folders Shortcuts Registry Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information Media settings 	ARP appearance (Control panel) I show this package in the Add/Remove Programs (ARP) list I allow Uninstall Allow Modify Allow Modify Allow Repair Product area ACE Suite Product version S.0.03 Manufacture Infopulse Product URL None None Support ORLAL Anne Support Contact Anne Mone Support contact Anne Commits Anne Lit Lit		

• Click Edit to modify the ARP properties.

MSI Editor - PACE_v5.0.0.msi		-	×
MENU Package Summary	Package Designer Tables Editor		
Package resources Files and folders Shortcuts Registry Custom actions Privers Package configuration Features and components ARP appearance Upgrades Properties Summary information Media settings N	ARP appearance (Control panel) So we this package in the Add/Remove Programs (ARP) list Allow Modify Allow Modify Allow Repair Addw Modify Allow Repair Addw Repair AddwR		



• Update the necessary values such as package icon, availability of the Uninstall, Modify, Repair buttons, application name, version, manufacturer and support details. Afterwards, click Save.

ARP appearance			_	×
Show this package in the	Add/Remove Pro	grams (ARP) list		
Allow Unins	tall			
Allow Modi	Γy			
Allow Repai	r			
Product name				
PACE Suite				
Product version				
5.0.0.63				
Manufacturer				
Infopulse				
Support details Product URL		Product update URL		
Support URL		Read me		
Support contact		Support phone number		
Comments				
	Save	Cancel		



Save

Edit

Help Quit

For saving your package, select Save from the MENU. •







3.7.11 Upgrades

Choose a scenario that better suits your needs:

- Import Upgrades, described in section 3.7.11.1 Implement the upgrade of previous MSI packages just selecting them from the file system.
- Add Upgrade, described in section 3.7.11.2 Add the new upgrade manually.
- Edit Upgrade, described in section 3.7.11.3 Edit the upgrade settings.

3.7.11.1 Import Upgrades

Implement the upgrade of previous MSI packages just selecting them from the file system.

• Go to the Package Designer -> Upgrades tab.

MSI Editor - PACE_v5.0.0.msi				- 🗆 ×
■ MENU Package Summary	Package Designer Tables Editor			
🕶 🖿 Package resources	 Upgrades		6	items 💙 Show details
Files and folders	Upgrade code	Туре	Version from	Version to
Shortcuts	C (02C354E5-8ABF-4376-A01A-E1DA4F72FBEE)	Upgrade	≥1.0.0.0	
🗞 Registry	C (02C354E5-8ABF-4376-A01A-E1DA4F72FBEE)	Detect	≥0.0.0.1	≤5.0.0.131
Custom actions	C (954E7FD1-EA91-4EA6-9929-F26FED17FBC5)	Upgrade	≥0.0.0.1	≤5.0.0.167
💋 Drivers	(9DEF97C4-E079-4D35-B6A8-2D3427FDA23F)	Detect	≥5.0.0.63	
Package configuration	9DEF97C4-E079-4D35-B6A8-2D3427FDA23F}	Upgrade	≥0.0.1	≤4.7.0
Eastures and components	C9CE49CC-0BE5-4BDE-9E77-D7A14F026033	Upgrade	≥0.0.0.1	≤5.0.0.46
Opgrades				
Properties				
Summary information				
🦾 Media settings				
1				
	Add 🔺 Remove			





Select Add -> Import from MSI from the toolbox.



• Select MSI packages, which you want to upgrade and click **Open**. The upgraded packages will be automatically removed from the target system, if exist, during the installation of the currently opened package.

le Open						×
← → • ↑ ↓	→ This	PC → Downloads		ٽ ~	Search Downloads	Ą
Organize 🔻 Ne	w folder					- 🔳 💡
🕹 Quick access		Name	^	Date modified	Туре	Size
Desistern		🔀 PACE_v4.6.1.msi		9/20/2018 4:14 PM	Windows Installer	52,196 KB
Desktop	7	🔀 PACE_v4.7.0.msi		10/3/2018 4:00 PM	Windows Installer	52,068 KB
 Documents Pictures OneDrive This PC Network Homegroup 	A A					
	File <u>n</u> ar	me: "PACE_v4.6.1.msi" "F	PACE_v4.7.0.msi"	~	Windows Installer In	stallations (\vee
					<u>O</u> pen	Cancel:



pg. 269

For saving your package, select Save from the MENU. •



3.7.11.2 Add Upgrade

Add the new upgrade manually.

Go to the Package Designer -> Upgrades tab. •

MENU Packago Summany				
Tackage Summary	Package Designer Tables Editor			
Package resources	Upgrades			6 items 💙 Show de
Files and folders	Upgrade code	Туре	Version from	Version to
📌 Shortcuts	(02C354E5-8ABF-4376-A01A-E1DA4F72FBEE)	Upgrade	≥1.0.0.0	
🗞 Registry	C {02C354E5-8ABF-4376-A01A-E1DA4F72FBEE}	Detect	≥0.0.0.1	≤5.0.0.131
Custom actions	(954E7FD1-EA91-4EA6-9929-F26FED17FBC5)	Upgrade	≥0.0.0.1	≤5.0.0.167
💕 Drivers	(9DEF97C4-E079-4D35-B6A8-2D3427FDA23F)	Detect	≥5.0.0.63	
Package configuration	(9DEF97C4-E079-4D35-B6A8-2D3427FDA23F)	Upgrade	≥0.0.1	≤4.7.0
	C9CE49CC-0BE5-4BDE-9E77-D7A14F026033}	Upgrade	≥0.0.0.1	≤5.0.0.46
 Properties Summary information Media settings 				



• Select Add -> Upgrade from toolbox.

MSI Editor - PACE_v5.0.0.msi				- 0
MENU Package Summary	Package Designer Tables Editor			
🕶 🛅 Package resources	Upgrades			6 items 💙 Show details
Files and folders	Upgrade code	Туре	Version from	Version to
📌 Shortcuts	(02C354E5-8ABF-4376-A01A-E1DA4F72FBEE)	Upgrade	≥1.0.0.0	
🗞 Registry	(02C354E5-8ABF-4376-A01A-E1DA4F72FBEE)	Detect	≥0.0.0.1	≤5.0.0.131
Custom actions	\$ {954E7FD1-EA91-4EA6-9929-F26FED17FBC5}	Upgrade	≥0.0.0.1	≤5.0.0.167
🐓 Drivers	\$ {9DEF97C4-E079-4D35-B6A8-2D3427FDA23F}	Detect	≥5.0.0.63	
- 🗁 Package configuration	\$ {9DEF97C4-E079-4D35-B6A8-2D3427FDA23F}	Upgrade	≥0.0.1	≤4.7.0
Eestures and components	C9CE49CC-0BE5-4BDE-9E77-D7A14F026033}	Upgrade	≥0.0.0.1	≤5.0.0.46
 ♥ Upgrades ♥ Properties ■ Summary information → Media settings 	Import from MSI Upgrade			

• Specify an upgrade code of the previous package(s), range of product versions, which should be upgraded, type of upgrade (detect only or upgrade), and click the Include to SecureCustomProperties link to include the specified action property to the



cureCustomProperties MSI property.	. Afterwards, click Save .		
Properties			
MSI table: 'Upgrade'			
Varian fram	Varian to	•	
		0	
Including the specified version	□ Including the specified version		
Туре			
Languages		~	
Applies only to the specified languages		~	
Features to remove			
Action property			
UPGRADE		•	
Include to SecureCustomProperties Ignore the upgrade failure and continue in	stallation		

For saving your package, select Save from the MENU.

 MSI Editor - PACE_v5.0.0.msi

······································		
MENU Package Summar	y Package Designer	Tables Editor
New MSI	Ctrl + N	
New MST		
Open	Ctri + O	
Open recent		
Apply MST to MSI		
Remove MIST from MIST		
Save Save	Ctrl + S	
Save as		
Create MSP against original MSI		
Deploy to SCCM		
Active scripting		
Compare packages		
Edit		
Import and export	•	
Validation	•	
Help	•	
Quit	Alt + F4	

3.7.11.3 Edit Upgrade

Edit the upgrade settings.

• Go to the Package Designer -> Upgrades tab.

MSI Editor - PACE_v5.0.0.msi				- 🗆 ×
■ MENU Package Summary	Package Designer Tables Editor			
🕶 🖿 Package resources	Upgrades		6	items 💙 Show details
Files and folders	Upgrade code	Туре	Version from	Version to
Shortcuts	(02C354E5-8ABF-4376-A01A-E1DA4F72FBEE)	Upgrade	≥1.0.0.0	
🗞 Registry	C (02C354E5-8ABF-4376-A01A-E1DA4F72FBEE)	Detect	≥0.0.0.1	≤5.0.0.131
Custom actions	(954E7FD1-EA91-4EA6-9929-F26FED17FBC5)	Upgrade	≥0.0.0.1	≤5.0.0.167
🗩 Drivers	(9DEF97C4-E079-4D35-B6A8-2D3427FDA23F)	Detect	≥5.0.0.63	
🗕 🗁 Package configuration	\$ {9DEF97C4-E079-4D35-B6A8-2D3427FDA23F}	Upgrade	≥0.0.1	≤4.7.0
Eeatures and components	C9CE49CC-0BE5-4BDE-9E77-D7A14F026033}	Upgrade	≥0.0.0.1	≤5.0.0.46
ARP appearance				
😅 Upgrades				
Properties				
Summary information				
📇 Media settings				
_				
	Add 🔺 Remove			

Select Properties from the context menu of upgrade entry, settings of which you want to edit.
 MISI Editor - PACE_VS.0.0.msi

MSI Editor - PACE_v5.0.0.msi						- D >
	Package Designer	Tables Editor				
- MENO Package Summary	Package Designer	Tables Editor				
🛨 🚞 Package resources	Upgrades					6 items 💙 Show details
Files and folders	Upgrade code			Туре	Version from	Version to
🕐 Shortcuts	C {02C354E5-8ABF-4376-	A01A-E1DA4F72FBEE}		Upgrade	≥1.0.0.0	
🗞 Registry	C {02C354E5-8ABF-4376-	A01A-E1DA4F72FBEE}		Detect	≥0.0.0.1	≤5.0.0.131
> Custom actions	C {954E7FD1-EA91-4EA6-	9929-F26FED17FBC5}		Upgrade	≥0.0.0.1	≤5.0.0.167
🐓 Drivers	{9DEF97C4-E079-4DE	Import from MSI		Detect	≥5.0.0.63	
Package configuration	(9DEF97C4-E079-4D3)	New upgrade		Upgrade	≥0.0.1	≤4.7.0
Eestures and components	C9CE49CC-0BE5-4BE	Descrition	50	Upgrade	≥0.0.0.1	≤5.0.0.46
ARP appearance		Properties	FZ			
		Remove	Del			
Properties		Go to Upgrade tabl	e			
Modia settings						
- Media settings						
	Add 🔺 Re	emove				



• Update the necessary values such as upgrade code, range of versions, upgrade type, action property and the like. Afterwards, click **Save**.

Properties	-	×
C		
MSI table: 'Upgrade'		
Upgrade code		
{954E7FD1-EA91-4EA6-9929-F26FED17FBC5}		
Version from	Version to	
0.0.0.1	5.0.0.167	
Including the specified version	Including the specified version	
Туре		
Upgrade the package		~
		~
Applies only to the specified languages		~
reatures to remove		
Action property		
MSIEDITORINSTALLED		
☑ Ignore the upgrade failure and continue in	stallation	
Save	Cancel	
Save		



Save

Edit

Help Quit

For saving your package, select Save from the MENU. •







3.7.12 Properties

Choose a scenario that better suits your needs:

- Add Property, described in section 3.7.12.1 Add a new property to the package.
- Edit Property, described in section 3.7.12.2 • Edit a name and a value of the existing property.

3.7.12.1 Add Property

Add a new property to the package.

Go to the Package Designer -> Properties tab. •

MENU Package Summary Package Designer Tables Editor Package resources Files and folders Shortcuts Shortcuts Registry Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties OusGeneratorBuyNowUri http://pacesuite.com/Jourclasce DocuGeneratorFuluition DocuGeneratorFuluition Action Status DocuGeneratorSuportEvaluition DocuGeneratorSuportEvaluition DocuGeneratorSuportEvaluition DocuGeneratorSuportEvaluition DocuGeneratorFuluition Action Approxements DocuGeneratorFuluition DocuGeneratorFuluition DocuGeneratorFuluition DocuGeneratorFuluition DocuGeneratorFuluition DocuGeneratorFuluition DocuGeneratorFuluition DocuGeneratorSuportEvaluition DocuGeneratorSuportEvaluition DocuGeneratorSuportEvaluition DocuGeneratorSuportEvaluition DocuGeneratorSuportEvaluition DocuGeneratorZendeskLogin CUbriszedQv/pr2/pageskiting272/GqbEsmilh6yEmA= DocuGeneratorZendeskLogin CUbriszedQv/pr2/pageskiting272/GqbEsmilh6yEmA= DocuGeneratorZendeskLogin CubriszedQv/pr2/pageskiting272/GqbEsmil	– 🗆 ×
 Package resources Files and folders Shortcuts Shortcuts Registry Custom actions Drivers ARP appearance Upgrades Properties Summary information Media settings DocuGeneratorKetYALID DocuGeneratorKetYALID DocuGeneratorKetYALID DocuGeneratorSupportPoint DocuGeneratorZendeskLogin DocuGeneratorZendeskLogin DocuGeneratorZendeskLogin DocuGeneratorZendeskLogin DocuGeneratorZendeskLogin DocuGeneratorZendeskLogin DocuGeneratorZe	
Files and folders Name Value Shortcuts BrowseProperty Image: Construct of the second of	114 items 💙
Shortcuts Registry Custom actions Drivers I ALLUSERS ARP appearance Upgrades Properties Summary information Media settings I DocuGeneratorHelpUri DocuGeneratorHelpUri DocuGeneratorHelpUri DocuGeneratorCenseRation DocuGeneratorCenseRation<	MSI table
	Control
 Custom actions BrowseProperty Investigation Features and components ARP appearance Upgrades Properties DocuGeneratorEvaluationUri Media settings DocuGeneratorHelpUri DocuGeneratorHelpUri DocuGeneratorSuportPortaulUri http://pacesuite.com/ DocuGeneratorSuportPortaulUri http://pacesuite.com/ DocuGeneratorSuportPortaulUri <li< td=""><td>Control</td></li<>	Control
 Drivers ALLUSERS ALLUSERS ARP appearance Upgrades Properties DocuGeneratorFielpUrl Media settings DocuGeneratorHelpUrl DocuGe	Control
 Package configuration ARPINSTALLLOCATION INSTALLDIR ARPINSTALLLOCATION INSTALLDIR ARPINSTALLLOCATION INSTALLDIR ARPINSTALLOCATION INSTALLDIR ARPINSTALLOCATION INSTALLOR ARPINSTALLOCATION INSTALLOR ARPINSTALLOCATION INSTALLOR ARPINSTALLOCATION INSTALLOR ARPINSTALLOCATION ARPINSTALLOR DocuGeneratorNaluonUri http://pacesuite.com/download/ DocuGeneratorHelpUri http://pacesuite.com/release/5.0.0/PACE-Suite-5.0.0-Getting-star DocuGeneratorNaluonUri DocuGeneratorSupportBortalUri http://pacesuite.com/support DocuGeneratorZendeskLogin CIND-K24QV2P2Pgwki1ilhgZT2/GqhESmIlh6yEmA= DocuGeneratorZendeskRvd DDHIK72abQMynq+2ioK4XVSzMTyhr9m4TINesmjs48mum6KIPL 	Property
ARPNOMODIFY 1 DecuGeneratorFulpON Mtpl//pacesulte.com/cesulte.com/cesulte.com/ DocuGeneratorFulpONTBortall Pace-support@mail pace-support@mail DocuGeneratorFulpONTBortall Pace-support@mail DocuGeneratorFulpONTBortall DocuGeneratorFulpONTBORTall DocuGeneratorFulpONTBORTall DocuGeneratorFulpONTBORTall DocuGeneratorFulpONTBORTall DocuGeneratorFulpONTBORTALL DOCUGENERATOREX DOCUGE	CustomAction
 Features and components ARP appearance Upgrades DecuGeneratorEulutionUri Media settings And Components ARP appearance DecuGeneratorEulutionUri Media settings And Components DecuGeneratorEulutionUri DecuGeneratorSupportEntalii DecuGeneratorSupportEntalii DecuGeneratorZendeskLogin CULX-s24Qu2P2Pgwki1lihgZT2/GqhESmIlh6yEmA= DecuGeneratorZendeskEvid DecuGeneratorZendeskLogin 	Property
 AKP appearance DefaultUlFont WixULFont_Normal DocuGeneratorBuyNowUrl http://pacesuite.com/purchase DocuGeneratorHelpPth VACE Suite user manualxps DocuGeneratorHelpPth VACE Suite user manualxps DocuGeneratorHelpPth DocuGeneratorSupportEmail DocuGeneratorSupportEmail DocuGeneratorZendeskLogin CH0+524Qv2P2Pgwki1lihgZT2jGqhE5mllh6yEmA= DocuGeneratorZendeskPwd DDHJK72abQMynq+2ioK4XV52MTyhr9m4TJNesmjs48mum6KipL 	Property
♥ Drogerdies ● DocuGeneratorBuyNowUrl http://pacesuite.com/purchase ● DocuGeneratorEvaluationUrl http://pacesuite.com/download/ ● DocuGeneratorHelpPath PACE Suite user manual.xps ● DocuGeneratorHelpPath PACE Suite user manual.xps ● DocuGeneratorHelpPath PACE Suite.com/release/5.0.0/PACE-Suite-5.0.0-Getting-star ● DocuGeneratorHelpPath PACE Suite user manual.xps ● DocuGeneratorHelpPath PACE Suite.com/release/5.0.0/PACE-Suite-5.0.0-Getting-star ● DocuGeneratorHelpPath PULA.rtf ● DocuGeneratorFueloWitl http://pacesuite.com/ ● DocuGeneratorFueloWitl http://pacesuite.com/ ● DocuGeneratorFueloWitle pace-support@infopulse.com ● DocuGeneratorSupportBortalUrl http://pacesuite.com/support ● DocuGeneratorZendeskLogin 7CH0+s24Qv2P2Pgywki1lihgZT2jGqhESmllh6yEmA= ● DocuGeneratorZendeskLogin DDHJK72abQMynq+2ioK4XVS2MTyhr9m4TJINesmjs48mum6KipL	Property
Properties OccuGeneratorEvaluationUri http://pacesuite.com/download/ Summary information DocuGeneratorHelpPath PACE Suite user manual.xps Media settings DocuGeneratorHelpPath PACE Suite user manual.xps DACE Suite.scom/release/5.0.0/PACE-Suite-5.0.0-Getting-star DocuGeneratorHelpPUri DocuGeneratorHelpPUri http://pacesuite.com/release/5.0.0/PACE-Suite-5.0.0-Getting-star DocuGeneratorLicensePath CEUL.Artf DocuGeneratorSupportDatutWebsiteUri http://pacesuite.com/ DocuGeneratorSupportDatumail pace-support@infopulse.com DocuGeneratorSupportPortalUri http://pacesuite.com/support DocuGeneratorZendeskLogin CHtb-s24Qv2P2Pgywki1lihgZT2jGqhESmllh6yEmA= DocuGeneratorZendeskLogin DDHJK72abQMynq+2ioK4XVSzMTyhr9m4TJINesmjs48mum6KipL	Property
Summary information DocuGeneratorHelpPath VPACE Suite user manualxps DocuGeneratorHelpPath VPACE Suite.com/release/5.0.0/PACE-Suite-5.0.0-Getting-star DocUGENERATORXEVVALID O DocuGeneratorLicensePath .LEULA.rtf DocuGeneratorProductWebsiteUrl http://pacesuite.com/ DocuGeneratorSupportEmail pace-support@infopulse.com DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorZendeskLogin CUto+s24Qv2P2Pgywki1lihgZT2jGqhE5mllh6yEmA= DocuGeneratorZendeskPwd DDHJK72abQMynq+2joK4XV52MTyhr9m4TJNesmjs48mum6KipL	Property
Media settings OcuGeneratorHelpUrl http://pacesuite.com/release/5.0.0/PACE-Suite-5.0.0-Getting-stat DocuGeneratorLicensePath AEULA.rtf DocuGeneratorProductWebsiteUrl http://pacesuite.com/ DocuGeneratorSupportEmail pace-support@infopulse.com DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorZendeskRvvd DDHJK72abQMynq+2loK4XVSzMTyhr9m4TJNesmjs48mum6KlpL	Property
OCUGENERATORKEYVALID 0 DocuGeneratorLicensePath .\EULA.rtf DocuGeneratorPoductWebsiteUrl http://pacesuite.com/ DocuGeneratorSupportEmail pace-support@infopulse.com DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorZendeskLogin 7CJt0+s24Qv2P2Pgywki1lihgZT2jGqhE5mllh6yEmA= DocuGeneratorZendeskPwd DDHJK72abQMynq+2ioK4XV5zMTyhr9m4TJNesmjs48mum6KipL	ed.pdf Property
DocuGeneratorLicensePath\EULA.rtf DocuGeneratorProductWebsiteUrl http://pacesuite.com/ DocuGeneratorSupportEmail pace-support@infopulse.com DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorZendeskLogin 7CLt0+s24Qv2P2Pgywki1lihq272jGqhE5mllh6yEmA= DocuGeneratorZendeskPwd DDHJK72abQMynq+2ioK4XV5zMTyhr9m4TJNesmjs48mum6KlpL	Property
DocuGeneratorProductWebsiteUrl http://pacesuite.com/ DocuGeneratorSupportEmail pace-support@infopulse.com DocuGeneratorSupportPortalUrl http://pacesuite.com/support DocuGeneratorZendeskLogin Clt0+s24Qv2P2Pgywki1lihqZ72jGqhE5mllh6yEmA= DocuGeneratorZendeskPwd DDHJK72abQMynq+2ioK4XV5zMTyhr9m4TJNesmjs48mum6KlpL	Property
DocuGeneratorSupportEmail pace-support@infopulse.com DocuGeneratorSupportPortalUri http://pacesuite.com/support DocuGeneratorZendeskLogin 7Clt0+s24Qv2P2Pgywki1lihqZ72jGqhE5mllh6yEmA= DocuGeneratorZendeskPwd DDHJK72abQMynq+2loK4XV5zMTyhr9m4TJNesmjs48mum6KlpL	Property
DocuGeneratorSupportPortalUri http://pacesuite.com/support DocuGeneratorZendeskLogin 7CUt0+s24Qv2P2Pgywki1lihq272jGqhE5mllh6yEmA= DocuGeneratorZendeskPwd DDHJK72abQMynq+2loK4XV5zMTyhr9m4TJNesmjs48mum6KipL	Property
DocuGeneratorZendeskLogin 7CH0+s24Qv2P2Pgywki1lihq272jGqhE5mllh6yEmA= DocuGeneratorZendeskPwd DDHJK72abQMynq+2ioK4XV5zMTyhr9m4TJNesmjs48mum6KipL	Property
DocuGeneratorZendeskPwd DDHJK72abQMynq+2ioK4XVSzMTyhr9m4TJNesmjs48mum6KipL	Property
	3Cz+JA4qg6Xv1 Property
DocuGeneratorZendeskUri https://infopulse.zendesk.com/api/v2	Property
O DOTNETTYPE Manual	Property
O DOTNETTYPE	Control
O DOTNETTYPE Manual	RadioButton
DOTNETTYPE Auto	RadioButton
C ErrorDialog ErrorDig	Property 👻





• Click Add, located in the toolbox.

MSI Editor - PACE_v5.0.0.msi			- 🗆	×
≡ MENU Package Summ	nary Package Designer Tables Editor			
🕶 🖿 Package resources	Properties		114 items	∇
Files and folders	Name	Value	MSI table	
reference to the second	BrowseProperty		Control	-7
🗞 Registry	BrowseProperty		Control	
Custom actions	BrowseProperty		Control	
💋 Drivers	ALLUSERS	1	Property	
Package configuration	P ARPINSTALLLOCATION	[INSTALLDIR]	CustomAction	
Eastures and components	ARPNOMODIFY	1	Property	
Peatures and components	ARPPRODUCTICON	ARP_ICON.ico	Property	
ARP appearance	DefaultUIFont	WixUI_Font_Normal	Property	
Upgrades	DocuGeneratorBuyNowUri	http://pacesuite.com/purchase	Property	
Properties	DocuGeneratorEvaluationUrl	http://pacesuite.com/download/	Property	
Summary information	DocuGeneratorHelpPath	\PACE Suite user manual.xps	Property	
📇 Media settings	DocuGeneratorHelpUrl	http://pacesuite.com/release/5.0.0/PACE-Suite-5.0.0-Getting-started.pdf	Property	
	DOCUGENERATORKEYVALID	0	Property	
	DocuGeneratorLicensePath	\EULA.rtf	Property	
	DocuGeneratorProductWebsiteUrl	http://pacesuite.com/	Property	
	DocuGeneratorSupportEmail	pace-support@infopulse.com	Property	
	DocuGeneratorSupportPortalUrl	http://pacesuite.com/support	Property	
	DocuGeneratorZendeskLogin	7CJt0+s24Qv2P2Pgywki1lihqZ72jGqhE5mllh6yEmA=	Property	
	DocuGeneratorZendeskPwd	DDHJK72abQMynq+2ioK4XVSzMTyhr9m4TJNesmjs48mum6KlpLb8Cz+JA4qg6Xv1	Property	
	DocuGeneratorZendeskUrl	https://infopulse.zendesk.com/api/v2	Property	
	DOTNETTYPE	Manual	Property	
	DOTNETTYPE		Control	
	DOTNETTYPE	Manual	RadioButton	
	DOTNETTYPE	Auto	RadioButton	
	ErrorDialog	ErrorDlg	Property	-

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• Enter a property name, value and click Add.

Add property				Х
Nama				
Tost proporty				
lest_property				
Value				
Test value				
	Add	Cancel		

• For saving your package, select Save from the MENU.



3.7.12.2 Edit Property

Edit a name and value of the existing property.

• Go to the Package Designer -> Properties tab.

MENU Package Summary	Package Designer Tables Editor		
Package resources	Properties		114 item
Files and folders	Name	Value	MSI table
📌 Shortcuts	BrowseProperty		Control
🗞 Registry	BrowseProperty		Control
Custom actions	BrowseProperty		Control
👉 Drivers	ALLUSERS	1	Property
Package configuration	ARPINSTALLLOCATION	[INSTALLDIR]	CustomAction
	ARPNOMODIFY	1	Property
Features and components	ARPPRODUCTICON	ARP_ICON.ico	Property
 ARP appearance Upgrades 	DefaultUIFont	WixUI_Font_Normal	Property
	DocuGeneratorBuyNowUrl	http://pacesuite.com/purchase	Property
Properties	DocuGeneratorEvaluationUrl	http://pacesuite.com/download/	Property
Summary information	DocuGeneratorHelpPath	\PACE Suite user manual.xps	Property
🚍 Media settings	DocuGeneratorHelpUrl	http://pacesuite.com/release/5.0.0/PACE-Suite-5.0.0-Getting-started.pdf	Property
	DOCUGENERATORKEYVALID	0	Property
	DocuGeneratorLicensePath	\EULA.rtf	Property
	DocuGeneratorProductWebsiteUrl	http://pacesuite.com/	Property
	DocuGeneratorSupportEmail	pace-support@infopulse.com	Property
	DocuGeneratorSupportPortalUrl	http://pacesuite.com/support	Property
	DocuGeneratorZendeskLogin	7CJt0+s24Qv2P2Pgywki1lihqZ72jGqhE5mllh6yEmA=	Property
	DocuGeneratorZendeskPwd	DDHJK72abQMynq+2ioK4XVSzMTyhr9m4TJNesmjs48mum6KlpLb8Cz+JA4qg6Xv1	Property
	DocuGeneratorZendeskUrl	https://infopulse.zendesk.com/api/v2	Property
	DOTNETTYPE	Manual	Property
	DOTNETTYPE		Control
	DOTNETTYPE	Manual	RadioButton
	DOTNETTYPE	Auto	RadioButton
	ErrorDialog	ErrorDlg	Property

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• Select Edit from the context menu of a property, which you want to edit.

MSI Editor - PACE_v5.0.0.msi					- 🗆	×
	Package Design	ner Tables Editor				
🕶 🖿 Package resources	Properties				114 item:	5
Files and folders	Name			Value	MSI table	
Shortcuts	BrowseProperty				Control	
🗞 Registry	BrowseProperty				Control	
Custom actions	BrowseProperty				Control	
🐓 Drivers	ALLUSERS			1	Property	
Package configuration	ARPINSTALLLOCA	New property		[INSTALLDIR]	CustomAction	
	ARPNOMODIFY	Edit	E2	1	Property	
Features and components	ARPPRODUCTICC	Pomovo	Del	ARP_ICON.ico	Property	
ARP appearance	DefaultUIFont	Remove	Der	WixUI_Font_Normal	Property	
😏 Upgrades	DocuGeneratorBi DocuGeneratorBi	Go to Property tab	le	http://pacesuite.com/purchase	Property	
Properties	DocuGeneratorEva	luationUrl		http://pacesuite.com/download/	Property	
Summary information	DocuGeneratorHel	lpPath		\PACE Suite user manual.xps	Property	
🖂 Media settings	DocuGeneratorHel	lpUrl		http://pacesuite.com/release/5.0.0/PACE-Suite-5.0.0-Getting-started.pdf	Property	
	DOCUGENERATOR	KEYVALID		0	Property	
	DocuGeneratorLice	ensePath		\EULA.rtf	Property	
	DocuGeneratorPro	ductWebsiteUrl		http://pacesuite.com/	Property	
	DocuGeneratorSup	oportEmail		pace-support@infopulse.com	Property	
	DocuGeneratorSup	pportPortalUri		http://pacesuite.com/support	Property	
	DocuGeneratorZer	ndeskLogin		7CJt0+s24Qv2P2Pgywki1lihqZ72jGqhE5mllh6yEmA=	Property	
	DocuGeneratorZer	ndeskPwd		DDHJK72abQMynq+2ioK4XVSzMTyhr9m4TJNesmjs48mum6KlpLb8Cz+JA4qg6Xv1	Property	
	DocuGeneratorZer	ndeskUrl		https://infopulse.zendesk.com/api/v2	Property	
	DOTNETTYPE			Manual	Property	
	DOTNETTYPE				Control	
	DOTNETTYPE			Manual	RadioButton	
	DOTNETTYPE			Auto	RadioButton	
	ErrorDialog			ErrorDlg	Property	-



• Update the property name, value and click Save.

Edit property			_	×
Name				
ALLUSERS				
Value				
2				
	Save	Cancel		

• For saving your package, select **Save** from the **MENU**.



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3.7.13 Summary Information

Edit the Summary Information properties of the opened MSI package or applied MST file.

• Go to the Package Designer -> Summary Information tab.



• Click Edit to modify the Summary Information properties.

BMSI Editor - PACE_v5.0.0.msi			-	×
≡ MENU Package Summary	y Package Designer Tables Editor			
🕶 🖿 Package resources	Summary information			
Files and folders Shortcuts	Basic information			
& Registry	Title Installation Database	Keywords Installer		
Drivers	Author Infopulse	Comments Infopulse PACE Suite		
 Package configuration Features and components 	Subject Infopulse PACE Suite			
ARP appearance	Code page 1252 (ANSI - Latin I)			
 Properties Summary information 	Requirements			
🖂 Media settings	Compatible platform Intel (32-bit package, installed on 32/64 bit platform)	Compatible languages 1033 (English (United States))		
	Package schema 300 (Requires Windows Installer 3.0 and greater)	Privileges Elevated privileges can be required to install this package		
	ID and settings			
	Package code {58FF1CA0-0525-43FB-96E6-08D9BA5F255A}	Image type Compressed to internal or external CABs, Long file names		
	Created 2/12/2019 1:01:22 AM	Saved 2/15/2019 11:24:49 AM		
	Edit			



• Update the necessary values such as title, author, compatible platform, package schema and the like. Afterwards, click Save.

NOTE If you need to change a compression type for files, instead of editing the **Image type**, go to the **Package Designer** -> **Media settings** tab, described in section 3.7.4.4

Summary information	X
Basic information	
Title	Keywords
Installation Database	Installer
Author	Comments
Infopulse	Infopulse PACE Suite
Subject	
Infopulse PACE Suite	
Code page	
1252 (ANSI - Latin I)	
Compatible platform Intel (32-bit package, installed on 32/64 Package schema	Compatible languages 1033
300 (Requires Windows Installer 3.0 and $_{\rm C}$ \checkmark	Elevated privileges can be required to ins ${\color{black} }{\color{black} }$
ID and settings Package code {58FF1CA0-0525-43FB-96E6-08D9BA5F255A Image type	} New
Compressed to internal or external CABs, Lor	ng file names 🗸 🗸
NOTE Image type indicates where package file compression type for files, go to the Media se	es are located. For changing actual ttings tab.
Save	Cancel



Save

Edit

Help Quit

For saving your package, select Save from the MENU. •







3.7.14 Tables

Choose a scenario that better suits your needs:

- Add Tables, described in section 3.7.14.1 Add the standard MSI tables to the package.
- Drop Table, described in section 3.7.14.2
 Drop tables from the package controling which of linked resources also will be removed.
- Import Tables (IDT), described in section 3.7.14.3 Import standard or custom tables with or without content from the IDT files.

3.7.14.1 Add Tables

Add the standard MSI tables to the package.

• Go to the Tables Editor tab.







Select Add tables from the context menu of any table.
 MSI Editor - PACE_v5.0.msi

MENU	Package Sur	mmary	Package Designer Tables Editor				
Tables		Appv	Assotiation				
Tables			Component	ComponentId	Directory	Attributes	Condition
Validation		۱.	AppyAssotiation	{0DBE1C87-52CE-44E0-B1B4-267741BBABE9}	TARGETDIR	0	INSTALLAPPVASSOTIATION
dminExecut	teSequence		cmp0190D5B67C7DC2C5FD0170FEE49C528A	{C17C34B2-BFAC-4934-915B-85A0A56FC2DD}	MSIGENERATORROOT	0	<null></null>
dminUlSequ	uence		cmp0194E3097F77CAB8A1909D06CAB9C445	{282E02EB-4203-4E3C-8189-53E0D68CCD9B}	MSIEDITORROOT	0	<null></null>
dvtExecuteS	Sequence		cmp01E6309A9129F556BE87AC1E2C863933	{FBC59911-4F1A-4281-A311-27365F27185C}	dirEFA2C0FFA64DFE12D8CE212B95E005C8	0	<null></null>
pSearch			cmp021709B91F51CEA8D966EA361CBAC605	{DEA79328-A3B9-42A6-A7AD-B4883890B40D	MSIEDITORROOT	0	<null></null>
nary			cmp02C53EC8E8B056356EBBC7BF7E0A6804	{F41CF8D4-2DA0-4F52-877B-29B4F03B360E}	MSIEDITORROOT	0	<null></null>
eckBox			cmp03C135474D5E45B896EBAB0AE714B7D0	{E76E43B7-CAE7-45FB-AFED-C4EB5D97BF6E}	MSIEDITORROOT	0	<null></null>
omponent			1mp03CF47FBCA227E610AE74C151CF10DC3	{4F992149-F97F-4FC7-ABD5-7F04F9D4A798}	MSIEDITORROOT	0	<null></null>
ontrol	Add tables		mp048AC21FB63D4133A445EA42DC20B0D9	{F0533FD5-4E59-43FE-937D-2D8A03F0D88A}	MSIEDITORROOT	0	<null></null>
ntrolCondi	Drop table		mp04CA7A47B5488B87FAD013D7298B7A1D	{F49F8023-C415-4C04-BB1F-5DC97CD77EEB}	dir33F15391917AF44495354A87548BF33E	0	<null></null>
ntrolEvent			mp04E8832C7517C8084E2FED1A6736D42F	{B7C01448-C0B1-4FBF-8E72-C051A364EBAD}	MSIEDITORROOT	0	<null></null>
stomAction	r Import tables		mp066B8A5A7452DE33957A30532F659B23	{A538878C-B279-49C1-9192-D239E059E0CE}	MSIGENERATORROOT	0	<null></null>
alog	Online help (1	(MSDN)	mp09F7AC2A2FF723969F8012AC52E69B03	{947D58C5-3623-4806-B21B-388B13672BFD}	MSIEDITORROOT	0	<null></null>
rectory			cmp0AD5B5B486F0407826081628CD86768A	{F4983A24-03A5-4CCC-9F9E-C813058DA477}	dirC0916089BBF98BB0BADF683C5CCF0B62	0	<null></null>
or			cmp0B7757366D7F60B8BF5DB57F5190E030	{71569ABA-7422-4C58-9E48-4AAC16216ADA}	dirD0D367A0F19DB5E0F041F02F2E2977E5	0	<null></null>
entMappin	g _		cmp0E3A26096B7317162A8B752B2155241B	{8E1AC0DD-8A66-4A4D-A79E-A1F980E01782}	MSIEDITORROOT	0	<null></null>
	- · · ·					-	
Hide emp Row re	pty tables eferences ICE	☑ Ena	ble linked items tracking for delete/update on Undo/Redo history	operations			Selected rows: 1 / Total row
State	Table		Row Key	Description			
→	Directory		TARGETDIR	Component.Directory_ => Directory.	Directory		
←	FeatureComponents		MsiGenerator.AppvAssotiation	Component.Component => Feature	Components.Component_		
←	Registry		reg0D34210A9953A9AB3ADDD09F9B4613C6	Component.Component => Registry	.Component_		
←	Registry		reg77A2B1EB13EC0E02D7EA99B1B19B6E62	Component.Component => Registry	.Component_		
←	Registry		reg8DFDD24915DC8BDBA192DD16686CD242	Component.Component => Registry	.Component_		
	n			Commente Commente de Borito	Comment		

• Select tables from the Available tables list, which you want to add to the package, click Add and Save.

NOTE The list diplays only those standard tables, which do not exist in the package.

Add and drop tables			— 🗆	×
Current MSI database			Available tables	
Select all/none	*		Select all/none	-
AdminExecuteSequence			□ ActionText	
□ AdminUISequence			□ AdvtUISequence	
□ AdvtExecuteSequence			🗹 Appld	
AppSearch		Add	BBControl	
Binary			✓ Billboard	
CheckBox		Remove	BindImage	
Component			CCPSearch	
			✓ Class	
			ComboBox	
ControlEvent			CompLocator	
			Complus	
Dialog	Ŧ			-
	S	ave Car	ncel	



 \Box \times

For saving your package, select Save from the MENU. •



3.7.14.2 Drop Table

Drop tables from the package controling which of linked resources also will be removed.

	MSI Edito	or - PACE_v5.0.	0.msi							-	
	MENU	Packag	ge Sun	nmary	Package Designer	Tables Editor					
Та	ables			App	Assotiation						
J	Tables								A		
\	Validation				Component		Lomponentid	Directory	Attributes	Condition	
A	dminExecu	uteSequence		•	AppvAssotiation	{	0DBF1C87-52CF-44E0-B1B4-267741BBABE9	TARGETDIR	0	INSTALLAPPVASSOT	IATIO
A	dminUlSec	quence			cmp0190D5B67C7DC2C5FD0	0170FEE49C528A {	C17C34B2-BFAC-4934-915B-85A0A56FC2DI	D} MSIGENERATORROOT	0	<null></null>	
A	dvtExecute	Sequence			cmp0194E309/F//CAB8A190)9D06CAB9C445 {	282E02EB-4203-4E3C-8189-53E0D68CCD9E	I} MSIEDITORROOT	0	<null></null>	
A	ppSearch				cmp01Eb309A9129F556BE87	AC1E2C863933 {	-BC59911-4F1A-4281-A311-2/365F2/185C}	dirEFA2C0FFA64DFE12D8CE212B95E005C8	0	<null></null>	
Bi	linary				cmpu21/09891F51CEA8D966	EASDICBAC605 {	UEA/9328-A389-42A6-A/AD-84883890840		0	<nuil></nuil>	
c	heckBox				cmpu2C55EC8E8BU50350EB	BC/BF/EUA0804 {	-41CF8D4-2DAU-4F52-8//8-2984F0383808		0	<nui></nui>	
c	Component	t			cmp03CE47EBCA227E610AE	7/C151CE10DC3	-/ UE430/-CAE/-45F8-AFEU-C4E85U9/8F8		0	snulls	
	ontrol		_		cmp03CF4/FBCA22/E010AE		=1 552 1=5-1 57 F=4FC7 =ABD5=7F04F9D4A796		0	zouls	
	ontrolCon	dition			cmp04CA7A47B5488B87FAF	013D72988741D {	E49E8023-C415-4C04-BB1E-5DC97CD77EE	3 dir33E153010176E44405354687548BE33E	0	couls	
	ontrolEver	nt			cmp04E8832C7517C8084E2E	FED1A6736D42E	87C01448-C0B1-4EBE-8E72-C051A364EBAD		0	<nul></nul>	
5	IustomActi	on			cmp066B8A5A7452DE33957	A30532F659B23 {	4538878C-B279-49C1-9192-D239E059E0CE	MSIGENERATORROOT	0	<null></null>	
0	Dialog				cmp09F7AC2A2FF723969F80	012AC52E69B03 {	947D58C5-3623-4806-B21B-388B13672BFD	MSIEDITORROOT	0	<null></null>	
D	Directory				cmp0AD5B5B486F04078260	81628CD86768A {	F4983A24-03A5-4CCC-9F9E-C813058DA47	dirC0916089BBF98BB0BADF683C5CCF0B62	0	<null></null>	
r	rror				cmp0B7757366D7F60B8BF50	DB57F5190E030 {	71569ABA-7422-4C58-9E48-4AAC16216ADA	A} dirD0D367A0F19DB5E0F041F02F2E2977E5	0	<null></null>	
1	ventMappi	ing	-		cmp0E3A26096B7317162A8B	3752B2155241B {	BE1AC0DD-8A66-4A4D-A79E-A1F980E01782	2} MSIEDITORROOT	0	<null></null>	
4		-	+	4					-		
4	Hide en	npty tables	► ICE	✓ Env	able linked items tracking fo	or delete/update c	perations			Selected rows: 1 / Tot	al n
	State	Table			Row Key		Description				
	\rightarrow	Directory TARGETDIR		Component.Directory_ => Director	y.Directory						
	←	FeatureComponents MsiGenerator.AppvAssotiation			MsiGenerator.AppvAssotiation		Component.Component => FeatureComponents.Component_				
	←	Registry			reg0D34210A9953A9AB3ADDI	D09F9B4613C6	Component.Component => Regist	ry.Component_			
	←	Registry			reg77A2B1EB13EC0E02D7EA99	9B1B19B6E62	Component.Component => Regist	ry.Component_			
	←	Registry			reg8DFDD24915DC8BDBA1920	DD16686CD242	Component.Component => Regist	ry.Component_			
	6	Registry			reg9CAE18686DDBB118206EB4		Component Component => Pegirt	ru Component			

Go to the **Tables Editor** tab. •



• Select **Drop table** from the context menu of a table, which you want to remove. NOTE The read-only system tables could not be removed.

Image: Section 2 - Pace_vs.0.0.msi -										
	Package Su	mman/	Package Designer Tables Edito							
	Tuckage Su	minary	Tables Early							
Tables		Appv	Assotiation							
Tables										
Validation			Component	ComponentId	Directory_	Attributes	Condition			
AdminEvecut	eSequence	Þ	AppvAssotiation	{0DBF1C87-52CF-44E0-B1B4-267741BBABE9}	TARGETDIR	0	INSTALLAPPVASSOTIATION	-		
	lence		cmp0190D5B67C7DC2C5FD0170FEE49C528A	{C17C34B2-BFAC-4934-915B-85A0A56FC2DD}	MSIGENERATORROOT	0	<null></null>			
AdutEvecute	Enclose .		cmp0194E3097F77CAB8A1909D06CAB9C445	{282E02EB-4203-4E3C-8189-53E0D68CCD9B}	MSIEDITORROOT	0	<null></null>			
Advitkecule	sequence		cmp01E6309A9129F556BE87AC1E2C863933	{FBC59911-4F1A-4281-A311-27365F27185C}	dirEFA2C0FFA64DFE12D8CE212B95E005C8	0	<null></null>			
Appsearch			cmp021709B91F51CEA8D966EA361CBAC605	{DEA79328-A3B9-42A6-A7AD-B4883890B40D}	MSIEDITORROOT	0	<null></null>			
Binary			cmp02C53EC8E8B056356EBBC7BF7E0A6804	{F41CF8D4-2DA0-4F52-877B-29B4F03B360E}	MSIEDITORROOT	0	<null></null>			
CheckBox			cmp03C135474D5E45B896EBAB0AE714B7D0	{E76E43B7-CAE7-45FB-AFED-C4EB5D97BF6E}	MSIEDITORROOT	0	<null></null>			
Component		1	mp03CF47FBCA227E610AE74C151CF10DC3	{4F992149-F97F-4FC7-ABD5-7F04F9D4A798}	MSIEDITORROOT	0	<null></null>			
Control	Add tables		mp048AC21FB63D4133A445EA42DC20B0D9	{F0533FD5-4E59-43FE-937D-2D8A03F0D88A}	MSIEDITORROOT	0	<null></null>			
ControlCond	Drop table		mp04CA7A47B5488B87FAD013D7298B7A1D	{F49F8023-C415-4C04-BB1F-5DC97CD77EEB}	dir33F15391917AF44495354A87548BF33E	0	<null></null>			
ControlEvent	Import tables	-	mp04E8832C7517C8084E2FED1A6736D42F	{B7C01448-C0B1-4FBF-8E72-C051A364EBAD}	MSIEDITORROOT	0	<null></null>			
CustomActio	r import tables	2	mp066B8A5A7452DE33957A30532F659B23	{A538878C-B279-49C1-9192-D239E059E0CE}	MSIGENERATORROOT	0	<null></null>			
Dialog	Online help ((MSDN)	mp09F7AC2A2FF723969F8012AC52E69B03	{947D58C5-3623-4806-B21B-388B13672BFD}	MSIEDITORROOT	0	<null></null>			
Directory			cmp0AD5B5B486F0407826081628CD86768A	{F4983A24-03A5-4CCC-9F9E-C813058DA477}	dirC0916089BBF98BB0BADF683C5CCF0B62	0	<null></null>			
Error			cmp0B7757366D7F60B8BF5DB57F5190E030	{71569ABA-7422-4C58-9E48-4AAC16216ADA}	dirD0D367A0F19DB5E0F041F02F2E2977E5	0	<null></null>			
EventMappir	g 🗸		cmp0E3A26096B7317162A8B752B2155241B	{8E1AC0DD-8A66-4A4D-A79E-A1F980E01782}	MSIEDITORROOT	0	<null></null>	-		
4		4				-				
Hide em	pty tables eferences IC	☑ Ena E validatio	ble linked items tracking for delete/update	operations			Selected rows: 1 / Total rows:	425		
State	Table		Row Key	Description						
▶ →	Directory		TARGETDIR	Component.Directory_ => Directory.D	Directory			-		
←	FeatureComponents	s	MsiGenerator.AppvAssotiation	Component.Component => FeatureC	omponents.Component_					
←	Registry		reg0D34210A9953A9AB3ADDD09F9B4613C6	Component.Component => Registry.	Component_					
←	Registry		reg77A2B1EB13EC0E02D7EA99B1B19B6E62	Component.Component => Registry.(Component_					
←	Registry		reg8DFDD24915DC8BDBA192DD16686CD242	Component.Component => Registry.	Component_					
←	Reaistry		rea9CAF18686DDBB118206EBAD2DE53FC7D	Component.Component => Registry.	Component			Ŧ		

 In case other non-empty tables refer to the selected table, you will get a compete list of all linked items, which will be affected by the removed tables. By default, all linked items will be removed along with the selected table in order to support the MSI database integrity constraints. If needed, untick those linked items, which you do not want to remove and click OK to continue.

② Linked items	_		×
To support the MSI database integrity constraints, the following linked items will be u	pdated	l or dele	ted
Select All/None Roots only			
 Component - NDP462KB3151802Web.exe 			-
 File - NDP462KB3151802Web.exe 			
 CustomAction - InstallDotNetVersion 			
✓ InstallExecuteSequence - InstallDotNetVersion			
FeatureComponents - NDP462.NDP462KB3151802Web.exe			
 Component - releasenotes.pdf 			
✓ ✓ File - releasenotes.pdf			
✓ MsiFileHash - releasenotes.pdf			
✓ Shortcut - releasenotes			
FeatureComponents - PaceManual.releasenotes.pdf			
 Component - releasenotes.xps 			
✓ ✓ File - releasenotes.xps			
✓ MsiFileHash - releasenotes.xps			
FeatureComponents - PaceManual.releasenotes.xps			
👻 🗹 Component - EULA.rtf			
			Ψ.
OK Cancel			



For saving your package, select Save from the MENU.



3.7.14.3 Import Tables (IDT)

Import standard or custom tables with or without content from the IDT files.

- MSI Editor PACE v5.0.0.msi × ≡ MENU Package Summary Package Designer Tables Edito Tables AppvAssotiation _Tables Component ComponentId Directory, Attributes Condition _Validatio ₽ AppvAssotiation {0DBF1C87-52CF-44E0-B1B4-267741BBABE9} TARGETDIR INSTALLAPPVASSOTIATION AdminExecuteSequence {C17C34B2-BFAC-4934-915B-85A0A56FC2DD} MSIGENERATORROOT cmp0190D5B67C7DC2C5FD0170FEE49C528A <null> AdminUlSequence cmp0194E3097F77CAB8A1909D06CAB9C445 {282E02EB-4203-4E3C-8189-53E0D68CCD9B} MSIEDITORROOT <null> AdvtExecuteSequence dirEFA2C0FFA64DFE12D8CE212B95E005C8 cmp01E6309A9129E556BE87AC1E2C863933 {FBC59911-4F1A-4281-A311-27365F27185C} <null> AppSearch cmp021709B91F51CEA8D966EA361CBAC605 {DEA79328-A3B9-42A6-A7AD-B4883890B40D} MSIEDITORROOT <null> Binary cmp02C53EC8E8B056356EBBC7BF7E0A6804 {F41CF8D4-2DA0-4F52-877B-29B4F03B360E} MSIEDITORROOT <null> CheckBox cmp03C135474D5E45B896EBAB0AE714B7D0 {E76E43B7-CAE7-45FB-AFED-C4EB5D97BF6E} MSIEDITORROOT <null> Component cmp03CF47FBCA227E610AE74C151CF10DC3 {4F992149-F97F-4FC7-ABD5-7F04F9D4A798} MSIEDITORROOT <null> Control cmp048AC21FB63D4133A445EA42DC20B0D9 {F0533FD5-4E59-43FE-937D-2D8A03F0D88A} MSIEDITORROOT <null> ControlConditio cmp04CA7A47B5488B87FAD013D7298B7A1D {F49F8023-C415-4C04-BB1F-5DC97CD77EEB} dir33F15391917AF44495354A87548BF33E <null> ControlEvent cmp04E8832C7517C8084E2FED1A6736D42F {B7C01448-C0B1-4FBF-8E72-C051A364EBAD} MSIEDITORROOT <null> CustomAction cmp066B8A5A7452DE33957A30532F659B23 {A538878C-B279-49C1-9192-D239E059E0CE} MSIGENERATORRO <null> Dialog cmp09F7AC2A2FF723969F8012AC52E69B03 {947D58C5-3623-4806-B21B-388B13672BFD} MSIEDITORROOT <null> Director cmp0AD5B5B486F0407826081628CD86768A {F4983A24-03A5-4CCC-9F9E-C813058DA477} dirC0916089BBF98BB0BADF683C5CCF0B62 0 <null> cmp0B7757366D7F60B8BF5DB57F5190E030 {71569ABA-7422-4C58-9E48-4AAC16216ADA} dirD0D367A0F19DB5E0F041F02F2E2977E5 <null> Error 0 cmp0E3A26096B7317162A8B752B2155241B {8E1AC0DD-8A66-4A4D-A79E-A1F980E01782} MSIEDITORROOT <null> EventMapping -----4 Selected rows: 1 / Total rows: 425 Hide empty tables Enable linked items tracking for delete/update operations Row references Undo/Redo history ICE validation Table State Row Key Description Directory TARGETDIR Component.Directory_ => Directory.Directory 4 FeatureComponents MsiGenerator.AppvAssotiation Component.Component => FeatureComponents.Component ← Registry reg0D34210A9953A9AB3ADDD09F9B4613C6 Component.Component => Registry.Component_ Registry ← reg77A2B1EB13EC0E02D7EA99B1B19B6E62 Component.Component => Registry.Component_ Registry reg8DFDD24915DC8BDBA192DD16686CD242 Component.Component => Registry.Component_ Reaistry ← rea9CAF18686DDBB118206EBAD2DE53FC7D Component.Component => Registry.Component
- Go to the Tables Editor tab.

Select Import tables from the context menu of any table.
 MSI Editor - PACE_v5.0.0.msi

≡ menu	Package Sur	mmary	Package Designer	Tables Editor						
Tables	*	Appv	Assotiation							
_Tables					~				A	
Validation			Component		Componer	itid		Directory	Attributes	Condition
AdminExecut	eSequence	•	AppvAssotiation		(0DBF1C87-	52CF-44E0-B1B4-267741BBAB	E9} T	TARGETDIR	0	INSTALLAPPVASSOTIATION ^
AdminUlSeq	Jence		cmp0190D5B67C7DC2C5FD0	170FEE49C528A	{C17C34B2	BFAC-4934-915B-85A0A56FC2	2DD} N	MSIGENERATORROOT	0	<null></null>
AdvtExecute	Sequence		cmp0194E3097F77CAB8A190	9D06CAB9C445	{282E02EB-	4203-4E3C-8189-53E0D68CCE	09B} N	MSIEDITORROOT	0	<null></null>
AnnSearch			cmp01E6309A9129F556BE87A	AC1E2C863933	(FBC59911-	4F1A-4281-A311-27365F27185C	:} c	dirEFA2C0FFA64DFE12D8CE212B95E005C8	0	<null></null>
Piezer			cmp021709B91F51CEA8D966	EA361CBAC605	(DEA79328	-A3B9-42A6-A7AD-B48838908	B40D} N	USIEDITORROOT	0	<null></null>
CharleDay			cmp02C53EC8E8B056356EBE	3C7BF7E0A6804	(F41CF8D4-	2DA0-4F52-877B-29B4F03B36	50E} N	USIEDITORROOT	0	<null></null>
Спесквох			cmp03C135474D5E45B896EB	AB0AE714B7D0	{E76E43B7-	CAE7-45FB-AFED-C4EB5D97B	F6E} N	VISIEDITORROOT	0	<null></null>
Component		:	mp03CF47FBCA227E610AE7	4C151CF10DC3	{4F992149-	F97F-4FC7-ABD5-7F04F9D4A7	798} N	ISIEDITORROOT	0	<null></null>
Control	Add tables		mp048AC21FB63D4133A445	EA42DC20B0D9	(F0533FD5-	4E59-43FE-937D-2D8A03F0D	88A} N	USIEDITORROOT	0	<null></null>
ControlCond	Drop table		mp04CA7A47B5488B87FAD	013D7298B7A1D	(F49F8023-	C415-4C04-BB1F-5DC97CD77E	EEB} d	dir33F15391917AF44495354A87548BF33E	0	<null></null>
ControlEvent	Import tables		mp04E8832C7517C8084E2F	ED1A6736D42F	(B7C01448-	C0B1-4FBF-8E72-C051A364EB/	AD} N	USIEDITORROOT	0	<null></null>
CustomActio	r import tables		mp066B8A5A7452DE33957	A30532F659B23	(A538878C	B279-49C1-9192-D239E059E0	ICE}	USIGENERATORROOT	0	<null></null>
Dialog	Online help (1	MSDN)	mp09F7AC2A2FF723969F80	12AC52E69B03	(947D58C5	-3623-4806-B21B-388B13672B	FD} N	MSIEDITORROOT	0	<null></null>
Directory			cmp0AD5B5B486F040782608	31628CD86768A	(F4983A24	03A5-4CCC-9F9E-C813058DA	477} d	dirC0916089BBF98BB0BADF683C5CCF0B62	0	<null></null>
Error			cmp0B7757366D7F60B8BF5E	B57F5190E030	(71569ABA	7422-4C58-9E48-4AAC16216A	ADA} d	dirD0D367A0F19DB5E0F041F02F2E2977E5	0	<null></null>
EventMappin	0		cmp0E3A26096B7317162A8B	752B2155241B	(8E1AC0DD	-8A66-4A4D-A79E-A1F980E01	782} N	INSIEDITORROOT	0	<null></null>
4		4							-	
Hide em	pty tables eferences ICE	☑ Ena	ble linked items tracking fo on Undo/Redo history	r delete/update	operation	5				Selected rows: 1 / Total rows: 42
State	Table		Row Key		0	escription				
▶ →	Directory		TARGETDIR		C	omponent.Directory_ => Direc	tory.Dir	rectory		4
←	FeatureComponents MsiGenerator.AppvAssotiation		C	omponent.Component => Fea	atureCo	mponents.Component_				
←	 Registry reg0D34210A9953A9AB3ADDD09F9B4613C6 		C	omponent.Component => Reg	gistry.Co	omponent_				
(Registry		reg77A2B1EB13EC0E02D7EA99	B1B19B6E62	C	Component.Component => Registry.Component_				
←	Registry		reg8DFDD24915DC8BDBA192D	D16686CD242	CD242 Component.Component => Registry.Component					
6	Registry		- reg9CAE18686DDBB118206EBA	D2DE53EC7D	C	omponent Component => Rec	nistry Co	omponent		

• Choose tables (*.idt), which you want to import and click Open.

Open							×
	> This	~ Ū	Search Downloads		P		
Organize 🔻 Ne	w folder					•	?
🛨 Quick access		Name		Date modified	Туре	Size	
Desktop	*	FileReplaceText.idt		12/11/2018 11:53	IDT File	1	I KB
👆 Downloads	*						
Documents	*						
Pictures	*						
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📃 This PC							
i Network							
🔩 Homegroup							
	File <u>n</u> an	ne: FileReplaceText.idt		~	Exported Windows	Installer Da	t ~
	-				<u>O</u> pen	Cancel	



 \Box \times

_
• If the package already contains a table with the same name, you will be informed about this by the **Import tables** window. To replace the existing tables, tick tables from the list you want to replace and click **Replace selected**.

lmport tables	_		×
The following tables are a current MSI database:	already ex	ist in the	
✓ FileReplaceText			
Replace selected		Cancel	

• For saving your package, select Save from the MENU.





3.7.15 Merge Modules

Choose a scenario that better suits your needs:

- Create MSM, described in section 3.7.15.1 Export component(s) from the opened MSI package to the new merge module (MSM).
- Import MSM to Package, described in section 3.7.15.2 Import merge modules (MSM) from the file system to the opened MSI package to deliver the shared resources properly.

3.7.15.1 Create MSM

Export component(s) from the opened MSI package to the new merge module (MSM).

• Go to the Package Designer -> Features and components tab.

SI Editor - PACE_v5.0.0.msi						- 🗆 X
■ MENU Package Summary	Package Designer Tables Editor					
🕶 📴 Package resources	Features and components		88 M	V	Collapse all	Show details
Files and folders	Name	Type	KevPath			
📌 Shortcuts	Docu Generator Core (ID: DocuGenerator)	Feature (Install Visible and col				
🗞 Registry	Infopulse PACE Suite (ID: MsiGenerator)	Feature (Install, Visible and ext				
Custom actions	Msi Editor (ID: MsiEditor)	Feature (Install, Visible and ext				
🐓 Drivers	PACE Suite (ID: ProductFeature)	Feature (Install, Visible and col				
Package configuration	Framework 4.7.2 (ID: NDP472)	Feature (Install, Visible and col				
	Image: NDP472KB4054531Web.exe	Component	ProgramFilesFo	older\PA	CE Suite\Prerequisites	NDP472-KB4054
	PACE Suite user manual (ID: PaceManual)	Feature (Install, Visible and col				
	🕀 🔛 EULA.rtf	Component	ProgramFilesFo	older\PA	CE Suite\EULA.rtf (ID:	EULA.rtf)
Upgrades	🕀 🔛 release_notes.pdf	Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release			
Properties	🕢 🔛 release_notes.xps	Component	ProgramFilesFolder\PACE Suite\Release notes.xps (ID: re			
Summary information	🔛 user_manual 🕴	Component	🗞 HKCU\Software\[Manufacturer]\[ProductName]\RemoveFile\/v			ne]\RemoveFile\N
📥 Media settings	PACE_Complete (ID: PACE_Complete)	Feature (Install, Visible and exp				
	🗉 🔛 INI_config.ini1	Component	🗞 HKLM\SOFTWA	ARE\[Ma	nufacturer]\[ProductN	lame]\[ProductVe
	Add • Remove					





• Select Export to Merge Module from the context menu of a component, which you want to export to MSM, or from the context menu of a feature to export all components of this feature.

BMSI Editor - PACE_v5.0.0.msi					– 🗆 X
	Package Desi	gner Tables Editor			
🔹 🚞 Package resources	Features and	d components			Collapse all Show details
Files and folders	Name			Туре	KeyPath
reference to the second	🕀 📑 Docu Gener	ator Core (ID: DocuGenerator)		Feature (Install, Visible and col	
🗞 Registry	Infopulse PA	ACE Suite (ID: MsiGenerator)		Feature (Install, Visible and exp	
> Custom actions	🕀 📑 Msi Editor (ID: MsiEditor)		Feature (Install, Visible and exp	
🐓 Drivers	PACE Suite	(ID: ProductFeature)		Feature (Install, Visible and col	
🕶 📄 Package configuration	E Framew	ork 4.7.2 (ID: NDP472)		Feature (Install, Visible and col	
Features and components	🕀 🔛 NDF	2472KB4054531Web.exe		Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054
ARP appearance	PACE 1	New feature		Feature (Install, Visible and col	
🗲 Upgrades	😐 🄛 EL	New component		Component	ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
Properties	🗄 🍉 re	Export to Merge Module		Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release)
Summary information		Properties F2	0	Component	Programmiesroider (PACE Suite (Release Hotes.xps (ID: Telease)
A Media settings		Move to		component	No hier betwee (wandies of the backware) (the backware)
		Remove Del			
		Go to Component table			
	A dad is	Deserve			
	Add 🔺	Kemove			

• Review and modify a list of components, selected for export, and click Next.

Export to Merge Module					_		×
	Components	Settings					
Components to export							
Component			Feature				
NDP472KB4054531Web.exe			Framework 4.7.2 (ID: N	DP472)			
Add Remove						Entries	:: 1
				Next >		Cancel	

• If needed, update a new module ID, version and language. To replace the exported components of MSI package with the created MSM, select the respective option. Afterwards,

PACE

5.2 - Getting Started				
ck Finish.				
5.2 - Getting Started K Finish. Export to Merge Module Components Settings Settings Settings Settings Settings	_			
~ —				
Components	Settings			
ettings				
Iodule ID				
fa3e75e2_e2af_4e6b_a202_19140518b44d				
ersion				
1000				
10.00				
anguage				
anguage				
anguage 0] Replace the exported components with the created Merge M	Nodule		~	

Enter a file name, select a destination location and click Save. •

Save Msm			×
← → ✓ ↑ ↓ > This PC > Downloads	✓ Č Sea	rch Downloads	Q
Organize 🔻 New folder			• • • •
A Name	Date modified	Туре	Size
Desktop	No items match your search.		
🖶 Downloads 🖈			
🔮 Documents 🖈			
📄 Pictures 🖈			
OneDrive			
💻 This PC			
💣 Network			
•4 Homegroup 🗸 <			>
File <u>n</u> ame:			~
Save as type: Windows Installer Merge Module (*.msm)			~
∧ Hide Folders		<u>S</u> ave Car	ncel





3.7.15.2 Import MSM to Package

Import merge modules (MSM) from the file system to the opened MSI package to deliver the shared resources properly.

• Select Import and export -> Import merge modules from the MENU.

New MSI	Ctrl + N	s and components			💷 陆 🝸 Collapse all Show deta
New MST		s and components			
Open	Ctrl + O			Туре	KeyPath
Open recent	•	cu Generator Core (ID: DocuGenerator)		Feature (Install, Visible and col	
Note to MSI		ppulse PACE Suite (ID: MsiGenerator)		Feature (Install, Visible and exp	
emove MST from MSI		i Editor (ID: MsiEditor)		Feature (Install, Visible and exp	
		CE Suite (ID: ProductFeature)		Feature (Install, Visible and col	
ave	Ctrl + S	Framework 4.7.2 (ID: NDP472)		Feature (Install, Visible and col	
ave as		NDP472KB4054531Web.exe		Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB405
reate MSP against original MS	51	PACE Suite user manual (ID: PaceManual)		Feature (Install, Visible and col	
enerate package report		EULA.rtf		Component	ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
eploy to SCCM		release_notes.pdf		Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release
		release_notes.xps		Component	Frogrammesroider (PACE Suite (Release notes.xps (iD: release
ctive scripting		- user_manual	•	Component	M HICO/Software/[Manuacture]/[Productivarie]/(kenioverie/
Compare packages					
dit	•				
mport and export	•	Import registry			
/alidation	•	Import merge modules			
telp	•	Import tables			
Juit	Alt + FA	Export to Merge Module			

• In the opened Import merge modules wizard click Add.

Import merge modules				— 🗆	×
	•				
	Select modules	Settings			
Select Merge Modules to Import					
Name		Version	Language		
Add Remove					
			Next >	Car	ncel

• Choose merge modules (*.msm), which you want to import and click **Open**. More than one file could be selected at once.

Select files to add	to MSI				×
	Search Downloads	Ą			
Organize 🔻 Ne	ew folder				- 🔳 🕜
📥 Quick accord		Name	Date modified	Туре	Size
Desktop	*	omdlg32.ocx_6.1.97.82_1033.msm	12/11/2018 1:55 PM	MSM File	82 KB
🖶 Downloads	*				
Documents	A				
Pictures	*				
📧 OneDrive					
📃 This PC					
💣 Network					
• 4 Homegroup					
	File <u>n</u> ar	me: comdlg32.ocx_6.1.97.82_1033.msm	~	Merge module files <u>O</u> pen	s (*.msm) ∨ Cancel

• Click Next to select the import settings.

ا (nport merge modules					×
	,	Select Set modules	tings			
Se	lect Merge Modules to Import					
Na	me		Version	Language		
со	ndlg32.ocx.BD8D7F3C_DD83_4C72_A623_4C30BD84B87D		6.1.97.82	1033		
	Add Remove					
				Next >	Cancel	



 Select a parent folder for the merge module resources from the Root directory field (in most cases this path is re-defined via the Custom action inside the MSM), feature from the Primary feature field, to which MSM components will be assigned, and compression type for the MSM files. Afterwards, click Finish.

Import merge modules				– 🗆 X
				
	Select modules	Settings		
Settings				
Specify a directory where to add merge mo Root directory	odule resources			
TARGETDIR (TARGETDIR)			~	New folder
Select a feature to assign new merge modu	ule to			
Primary feature				
ProductFeature			~	New feature
Select a module media destination				
Media type				
External CAB				~
		< Bac	k Finish	Cancel

• If you have the unsaved changes, you will be asked what to do with them because the Import merge modules is an irreversible operation that resets whole undo/redo history. Select the necessary option and click Apply.





• Find the resouces from the imported merge modues on the **Tables Editor** tab, highlighted in green.

MSI Editor - PACE	_v5.0.0.msi							-		×
≡ MENU P	ackage Summary	Package Designer Tabl	es Editor							
Tables	comd	llg32.ocx.BD8D7F3C_DD83_4C72	_A623_4C30E	D84B87D						
_Columns			<i>c</i>			B ¹	A			
Streams		Component	6	mponentid		Directory	Attributes	Condition		
_Tables	• +	comdlg32.ocx.BD8D7F3C_DD83_4C	72_A623 {BD	8D7F3C-DD83-4C72-A623-	4C30BD84B8	SystemFolder.BD8D7F3C_DD83_4C72_A6	24	<null></null>		-
_Validation		AppvAssotiation	{0D	BF1C87-52CF-44E0-B1B4-26	57741BBABE9}	TARGETDIR	0	INSTALLAPPVASSO	TIATION	
AdminExecuteSequen	ce	cmp0190D5B67C7DC2C5FD0170FEE	49C528A {2E	9850F9-D8ED-45DB-AC78-(LBE04EE60789}	MSIGENERATORROOT	0	<null></null>		
AdminUlSequence		cmp0194E3097F77CAB8A1909D06C	AB9C445 {A8	583182-E1E5-4F99-8D80-FC	9671B490BE}	MSIEDITORROOT	0	<null></null>		
AdvtExecuteSequence		cmp01E6309A9129F556BE87AC1E2C	863933 {2B	D5385D-F209-4385-8C48-9	F4DB8A0ECE9}	dirEFA2C0FFA64DFE12D8CE212B95E005C8	0	<null></null>		
AppSearch		cmp021709B91F51CEA8D966EA361C	BAC605 {7D	553E36-5D7B-4752-8733-F	D81612541B5}	MSIEDITORROOT	0	<null></null>		
Binary		cmp02C53EC8E8B056356EBBC7BF7	E0A6804 {4F	923899-9866-4DF6-8C1D-B	1FD5D50DF5E}	MSIEDITORROOT	0	<null></null>		
ChackBay		cmp03C135474D5E45B896EBAB0AE	714B7D0 {DE	D70ACA-8CF7-4E28-B1C2-(556984E9B056}	MSIEDITORROOT	0	<null></null>		
Checkbox		cmp03CF47FBCA227E610AE74C1510	F10DC3 {7D	6375D2-8AE4-4231-937C-1	81645E02EA7}	MSIEDITORROOT	0	<null></null>		
Class		cmp048AC21FB63D4133A445EA42D	C20B0D9 (DC	EB72F7-89FF-44C1-9F7D-2	67CB3F6A4B5}	MSIEDITORROOT	0	<null></null>		
Component		cmp04CA7A47B5488B87FAD013D72	98B7A1D (6F)	A8F1FC-5E4A-4EEA-B1E9-2D)347555B20D}	dir33F15391917AF44495354A87548BF33E	0	<null></null>		
Control		cmp04E8832C7517C8084E2FED1A67	736D42F {B5	98BDAB-FCC3-41DA-BE49-9	SAE6B8CB356B}	MSIEDITORROOT	0	<null></null>		
ControlCondition		cmp066B8A5A7452DE33957A30532	F659B23 {A4	AB500A-3166-4F2A-88AF-9	4EF5D3EF2F4}	MSIGENERATORROOT	0	<null></null>		
ControlEvent		cmp09F7AC2A2FF723969F8012AC52	2E69B03 {22	014BB5-F81B-435C-9EA6-D1	I9AED5B020A}	MSIEDITORROOT	0	<null></null>		
CustomAction		cmp0AD5B5B486F0407826081628C	D86768A {75	81F51-1EDF-4D4D-A414-B1	FF4D445BD3}	dirC0916089BBF98BB0BADF683C5CCF0B6	2 0	<null></null>		
Dialog	-	cmp0B7757366D7F60B8BF5DB57F5	190E030 {076	58953F-4154-48CD-BFCB-0	1C9CDAF6B51}	dirD0D367A0F19DB5E0F041F02F2E2977E5	0	<null></null>		-
4	+						-			Þ.
Hide empty tab Row reference	iles 💽 Ena	ble linked items tracking for dele on Undo/Redo history	te/update op	erations				Selected rows: 1 / 1	íotal row	s: 410
State Table		Row Key		Description						
► → Directo	ry	SystemFolder,BD8D7F3C DD83 4C72	A623 4C30BD8	4B87 Component.Directory	=> Directory.0	Directory				
→ File	1	comdla32.ocx.BD8D7F3C DD83 4C72	A623 4C30BD	84B8' Component KevPath	=	,				
Class		(3C4E3BE3-47EB-101B-43C9-08002B2	E49EB3 InprocSe	rver3 Component Compon	ent => Class Co	moonent				
Class		(3C4E3BE5-47EB-101B-43C9-08002B2	F49FB3 InprocSe	rver3 Component Compon	ent => Class Co	moonent				
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Class		(3C4) 35C1-4725-1018-A3C9-0600282	r 45r bj.inprocse	wers component.compon	ent -> class.co	mponent				-
		1/029CFA2-5FE5-1018-A3C9-0800282	r49Fb).inproc3e	rvers Component.Compon	ent => Class.Co	moonent				

• For saving your package, select Save from the MENU.





3.8 Edit Project

Choose a scenario that better suits your needs:

- For managing File and Folders see section 3.8.2 Exclude/include captured files, add new folders, files.
- For managing **Registry** see section 3.8.3 Exclude/include captured registry entries, import and export registry.
- For managing Services see section 3.8.4 Exclude/include captured services and manage their details.
- For managing Environment Variables see section 3.8.5 Manage captured environment variables, manage their details, create new ones.
- For managing MSI Settings see section 3.8.6
 Select the MSI specific settings for creting the MSI packages.
- For managing MSIX/APPX Settings see section 3.8.7 Select the MSIX/APPX specific settings for creting the MSIX/APPX packages.
- For managing APPV Settings see section 3.8.8 Select the APPV specific settings for creting APPV packages.
- For managing THINAPP Settings see section 3.8.9 Select the THINAPP specific settings for creting THINAPP packages.

3.8.1 Pre-Condition

Open a project file following the instructions below:

• Launch MSI Generator from the desktop of the start menu shortcut.







• If you have the User Account Control enabled, click Yes to launch the application.



Select Edit project -> Open.





• Choose a project file (*.MGP) from your file system and click Open.

Open					×
← → • ↑ <mark> </mark>	« MS	I Generator > Packages > PKG-190207-100814	✓ [™] Searce	h PKG-190207-100814	Q
Organize 🔻 Nev	w folde	r			•
📌 Quick access		Name	Date modified	Туре	Size
Deckton		App-V	2/15/2019 2:23 PM	File folder	
DESKIOP	<i>.</i>	АррХ	2/12/2019 3:38 PM	File folder	
Downloads	R	PKG-190207-100814_files	2/12/2019 4:02 PM	File folder	
Documents	*	ThinApp	2/12/2019 4:02 PM	File folder	
Pictures	*	@ PKG-190207-100814.mgp	2/15/2019 2:43 PM	MSI Generator Pro	793
OneDrive This PC Network					
•i Homegroup					
		<			>
	File <u>n</u> a	me: PKG-190207-100814.mgp	✓ Proje	ect files (*.mgp) <u>O</u> pen Can	✓



3.8.2 File and Folders

Choose a scenario that better suits your needs:

- Exclude File/Folder, described in section 3.8.2.1 Exclude the unnecessary files and folders from the project.
- Include Excluded File/Folder, described in section 3.8.2.2 Include the necessary resources, previously excluded from the project.
- Add System Folder, described in section 3.8.2.3 Add a system (standard) folder from the list.
- Add Subfolder, described in section 3.8.2.4 Add a subfolder (user-defined folder).
- Import Files and COM, described in section 3.8.2.5 Import files from the file system to the project.
- Move File, Folder, described in section 3.8.2.6 Move a file or a folder from one folder to another.
- Edit File Properties, described in section 3.8.2.7 Edit a name, installation folder and permissions (used for MSI only) of the file.
- Edit Folder Properties, described in section 3.8.2.8 Edit a name, parent folder and permissions (used for MSI only) of the folder.
- Delete File, Folder, described in section 3.8.2.9 Delete a file or a folder from the project and project folder on the file system.







3.8.2.1 Exclude File/Folder

Exclude the unnecessary files and folders from the project.

• Go to the Files tab.

me	Туре	Size	State
a C:	Folder		Changed
Program Files (x86)	Folder		Changed
Mozilla Firefox	Folder		Added
Mozilla Maintenance Service	Folder		Added
E logs	Folder		Added
aintenanceservice.exe	EXE	197,4 KB	Added
Uninstall.exe	EXE	87,5 KB	Added
🖺 updater.ini	INI	1,2 KB	Added
ProgramData	Folder		Changed
🖃 🔤 Microsoft	Folder		Changed
🕀 🛅 Search	Folder		Changed
Windows	Folder		Changed
Start Menu	Folder		Changed
🗷 🛅 wfp	Folder		Changed
🕀 🛅 Windows-Defender	Folder		Changed
Users	Folder		Changed
Windows	Folder		Changed
E appcompat	Folder		Changed
Prefetch	Folder		Changed
System32	Folder		Changed
🗄 🛄 Temp	Folder		Changed



 Select Exclude from the context menu of an item, which you want to exclude from the project. Note that the excluded items are highlighted in yellow and crossed out.

ame	_		
	Type	Size	State
a C	Folder		Changed
Program Files (x86)	Folder		Changed
Mozilla Firefox	Folder		Added
Mozilla Maintenance Service	Folder		Added
Hegs Import files	Folder		Added
maintenanceservice.exe New subfolder	EXE	197,4 KB	Added
Uninstall.exe Properties E2	EXE	87,5 KB	Added
updater.ini Move to folder	INI	1,2 KB	Added
ProgramData	Folder		Changed
Microsoft Exclude Del	Folder		Changed
Search Add to exclusion filter	Folder		Changed
Windows Delete Shift+Del	Folder		Changed
Start Menu APPV virtualization level	Folder		Changed
🕀 🗋 wfp	Folder		Changed
Windows Defender	Folder		Changed
Constant Constan	Folder		Changed
B 🗋 Windows	Folder		Changed
appcompat	Folder		Changed
Prefetch	Folder		Changed
■ System32	Folder		Changed
🖬 🛄 Temp	Folder		Changed

3.8.2.2 Include Excluded File/Folder

Include the necessary files and folders, previously excluded from the project.

• Go to the Files tab.

les and folders	In	cluded: 111 files (158,8	MB) 💙 Collapse
ame	Туре	Size	State
a C	Folder		Changed
🖃 🔤 Program Files (x86)	Folder		Changed
🚯 🔚 Mozilla Firefox	Folder		Added
🖃 🔚 Mozilla Maintenance Service	Folder		Added
🗄 🛄 legs	Folder		Added
i maintenanceservice.exe	EXE	197,4 KB	Added
Uninstall.exe	EXE	87,5 KB	Added
📄 updater.ini	INI	1,2 KB	Added
🖃 🔤 ProgramData	Folder		Changed
Microsoft	Folder		Changed
🕀 🦳 Search	Folder		Changed
Windows	Folder		Changed
🕀 🔝 Start Menu	Folder		Changed
🕀 🦳 wfp	Folder		Changed
🗈 🛅 Windows Defender	Folder		Changed
Users	Folder		Changed
Windows	Folder		Changed
🕀 🛄 appcompat	Folder		Changed
	Folder		Changed
System 32	Folder		Changed
Temp	Folder		Changed



Select Include from the context menu of an item, which you want to include back to the project. Note that the excluded items are highlighted in yellow and crossed out.
 Edit package - PKG-190430-144511.mgp

≡ MENU Package	Files Shortcuts\/	Apps Re <u>c</u>	gistry System resources			
Files and folders				Include	d: 111 files (158,8 MB)	Collapse all
Name				Туре	Size	State
🖃 📄 C:				Folder		Changed
Program Files (x86) Folder Changed					Changed	
🚯 🛅 Mozilla Firefox Folder Added					Added	
🖃 📗 Mozilla Mai	intenance Service			Folder		Added
🕀 🗋 legs				Folder		Added
📄 mainte	Import files			EXE	197,4 KB	Added
Uninst Uninst	New subfolder			EXE	87,5 KB	Added
📄 updat	Proportion	E2		INI	1,2 KB	Added
ProgramData	Move to folder	F2		Folder		Changed
Microsoft	Nove to tolder			Folder		Changed
🕀 🛄 Search	Include	Ins		Folder		Changed
🖃 🔛 Windo	Add to exclusion filter	•		Folder		Changed
€ St	Delete	Shift+Del		Folder		Changed
	APPV virtualization leve	▶		Folder		Changed
H 🛄 Winde	,			Folder		Changed
Users				Folder		Changed
Windows				Folder		Changed
appcompat				Folder		Changed
Prefetch				Folder		Changed
System32				Folder		Changed
🗉 📄 Temp				Folder		Changed
Add 🔺 Del	ete					

3.8.2.3 Add System Folder

Add a system (standard) folder from the list.

• Go to the Files tab.

		cidaca. III ilics (156,	
ame	Туре	Size	State
a C:	Folder		Changed
Program Files (x86)	Folder		Changed
Mozilia Firefox	Folder		Added
Mozilla Maintenance Service	Folder		Added
	Folder		Added
i maintenanceservice.exe	EXE	197,4 KB	Added
Uninstall.exe	EXE	87,5 KB	Added
b updater.ini	INI	1,2 KB	Added
ProgramData	Folder		Changed
Microsoft	Folder		Changed
Search	Folder		Changed
Windows	Folder		Changed
Start Menu	Folder		Changed
🕒 🔄 wfp	Folder		Changed
Windows-Defender	Folder		Changed
	Folder		Changed
Windows	Folder		Changed
ppcompat	Folder		Changed
	Folder		Changed
L System 52	Folder		Changed
H lemp	Folder		Changed

 \Box \times

Ensure that the necessary system folder does not exist in the project. To display all folders, clear the Hide empty folders, Hide excluded items and Hide items without permissions filters.
 Edit package - PKG-190430-144511.mgp

	Package	Files	Shortcuts\Apps	Registry	System resources				
Files and	folders						Include	d: 112 files (158,9 MB)	Collapse all
Name						Туре	🗌 Hide em	pty folders	
😑 🔤 C:						Folde	🗌 Hide exc	luded items	iged
😑 📄 Pr	ogram Files (x86	0				Folde	🗆 Hide iter	ms without permission	ged
•	Mozilla Firefox					Folde		no maloot permosion	2 ed
8	Mozilla Mainte	enance Servi	ce			Folde	🗌 Hide add	ded files	ed .
E	l logs					Folde	□ Hide cha	anged files	łd
	i maintenan	ceservice.ex	e			EXE			ed
	Uninstall.e	×e				EXE	LI Hide ren	noved tiles	łd
	updater.ini	i				INI	Clear filter		ed .
- Pr	ogramData					Folder			cnorlged
	MICrosoft					Folder			Changed
±	Search					Folder			Changed
	Windows	Defender				Folder			Changed
		Perenuer				Folder			Changed
	nace					Folder			Changed
	Public					Folder			Changed
	indows					Folder			Changed
	appcompat					Folder			Changed
	Prefetch					Folder			Changed
	System32					Folder			Changed
•	Temp					Folder			Changed
Add 🔺	Exclud	le							

• To add system folders, select Add -> System folders from the toolbox.

Edit package - PKG-190430-144511.mgp			- 🗆 ×
■ MENU Package Files Shortcuts\Apps Registry System resources			
Files and folders	Include	d: 112 files (158,9 MB)	Collapse all
Name	Туре	Size	State
8 0	Folder		Changed
Program Files (x86)	Folder		Changed
😠 🔤 Mozilla Firefox	Folder		Added
🖃 🛅 Mozilla Maintenance Service	Folder		Added
🛚 🛄 logs	Folder		Added
i maintenanceservice.exe	EXE	197,4 KB	Added
Uninstall.exe	EXE	87,5 KB	Added
🖹 updater.ini	INI	1,2 KB	Added
🖃 🔤 ProgramData	Folder		Changed
🖃 🔤 Microsoft	Folder		Changed
B 🛅 Search	Folder		Changed
B Windows	Folder		Changed
Windows-Defender	Folder		Changed
Users	Folder		Changed
😠 🗀 pace	Folder		Changed
😠 🗁 Public	Folder		Changed
Windows	Folder		Changed
B percompat	Folder		Changed
🕒 🗁 Prefetch	Folder		Changed
B System32	Folder		Changed
🕒 🗁 Temp	Folder		Changed
Import files Subfolder System folders Add Exclude			



 \times

• Choose system folders, which you want to add, and then click Add. Note that this list displays only those folders, which do not exist in the project.

Add system folders	×
System folders	
Select all/none	*
☑ C:\Program Files	
□ C:\Program Files (x86)\Common Files	
☑ C:\Program Files\Common Files	
C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Administrative Tools	
☑ C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Startup	
C:\ProgramData\Microsoft\Windows\Templates	
C:\Users\Default	
C:\Users\Default\Desktop	_
C:\Users\Default\Documents	
C:\Users\pace\AppData\LocalLow	_
C:\Users\pace\AppData\Roaming	_
C:\Users\pace\AppData\Roaming\Microsoft	
C:\Users\pace\AppData\Roaming\Microsoft\Templates	
C:\Users\pace\AppData\Roaming\Microsoft\Windows	
C:\Users\pace\AppData\Roaming\Microsoft\Windows\SendTo	
C:\Users\pace\AppData\Roaming\Microsoft\Windows\Start Menu	_
C:\Users\pace\AppData\Roaming\Microsoft\Windows\Start Menu\Programs	_
C:\Users\pace\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup	_
C:\Users\pace\Desktop	
Add Cancel	

3.8.2.4 Add Subfolder

Add a subfolder (user-defined folder).

• Go to the Files tab.

	Turne	cine	Charles .
	Туре	SIZE	State
G Decement Films (rdf)	Folder		Changed
Program Files (xob)	Folder		Changed
Mozilla Firetox	Folder		Added
	Folder		Added
	EVE	107.4 KB	Added
	EXE	87.5.VR	Added
	INI	1.2 KB	Added
ProgramData	Folder	1,2 10	Changed
Microsoft	Folder		Changed
E Search	Folder		Changed
Windows	Folder		Changed
. Start Menu	Folder		Changed
🗷 🛄 wfp	Folder		Changed
🗉 🛅 Windows-Defender	Folder		Changed
🗷 🛄 Users	Folder		Changed
E 🗋 Windows	Folder		Changed
🗈 🛅 appcompat	Folder		Changed
Prefetch	Folder		Changed
🗉 📄 System32	Folder		Changed
🕀 🛅 Temp	Folder		Changed



Ensure that the necessary subfolder does not exist in the project. To display all folders, clear the Hide empty folders, Hide excluded items and Hide items without permissions filters.
 Edit package - PKG-190430-144511.mgp

≡ MENU Package Files Shortcuts\Apps Registry System resources			
Files and folders		Included: 112 files (158,9 MB)	Collapse all
Name	Туре	Hide empty folders	
B C	Folde	Hide excluded items	iged
Program Files (x86)	Folde	Hide items without permission	ged
🗈 🔜 Mozilla Firefox	Folde		ed .
🖃 📗 Mozilla Maintenance Service	Folde	Hide added files	ed
🖬 🛅 logs	Folde	Hide changed files	łd
aintenanceservice.exe	EXE		ed
L Uninstall.exe	EXE	Hide removed files	łd
updater.ini	INI	Clear filter	ed
ProgramData	Folder		cnariged
Microsoft	Folder		Changed
Search	Folder		Changed
Windows	Folder		Changed
Windows Detender	Folder		Changed
	Folder	·	Changed
	Folder		Changed
	Folder	·	Changed
	Folder		Changed
	Folder		Changed
E reference	Folder		Changed
	Folder		Changed
	roider		unanged
Add 🔺 Exclude			

• Select New subfolder from the context menu of a folder, where you want to create a new folder.

🖨 Edit package - PKG-190430-144511.mgp — 🗆 🗙						
≡ MENU Package Files	Shortcuts\Apps Registry System	resources				
Files and folders			Included	d: 111 files (158,8 MB)	V Collapse all	
Name		T	уре	Size	State	
e C:		F	Folder		Changed	
Program Files (x86)		F	Folder		Changed	
🗈 🔛 Mozilla Firefox		F	Folder		Added	
🖃 📗 Mozilla Maintenance Service		F	Folder		Added	
🗈 🛅 logs	Import files	ŧ	Folder		Added	
maintenanceservice.exe	New subfolder	E	EXE	197,4 KB	Added	
Uninstall.exe	Proportion E2	6	EXE	87,5-KB	Added	
📄 updater.ini	Maye to folder	1	NI	1,2 KB	Added	
ProgramData	Nove to loider	F	Folder		Changed	
Microsoft	Exclude Del	F	Folder		Changed	
🗈 🛅 Search	Add to exclusion filter	F	Folder		Changed	
Windows	Delete Shift+Del	F	Folder		Changed	
🗉 📄 Start Menu	APPV virtualization level	F	Folder		Changed	
🗉 🛄 wfp	7411 Vintualization level	F	Folder		Changed	
🕀 🛄 Windows-Defender		F	Folder		Changed	
		F	Folder		Changed	
Windows		F	Folder		Changed	
appcompat		F	Folder		Changed	
Prefetch		F	Folder		Changed	
		F	Folder		Changed	
		F	Folder		Changed	
Add • Exclude						



×

• Enter a folder name and click Add.

New subfolder			×
Name			0
	Add	Cancel	

3.8.2.5 Import Files and COM

Import files from the file system to the project.

• Go to the Files tab.

Edit package - PKG-190430-144511.mgp			- 🗆 ×
≡ MENU Package Files Shortcuts\Apps Registry System resources			
Files and folders	Include	ed: 111 files (158,8 MB)) 💙 Collapse all
Name	Туре	Size	State
	Folder		Changed
Program Files (x86)	Folder		Changed
🗷 🔚 Mozilla Firefox	Folder		Added
🖃 🔤 Mozilla Maintenance Service	Folder		Added
🖻 🛄 legs	Folder		Added
anintenanceservice.exe	EXE	197,4 KB	Added
Uninstall.exe	EXE	8 7,5 KB	Added
📄 updater.ini	INI	1,2 KB	Added
ProgramData	Folder		Changed
🖃 🔤 Microsoft	Folder		Changed
B Search	Folder		Changed
Windows	Folder		Changed
🕖 🔐 Start Menu	Folder		Changed
🕒 🗋 🛄 wfp	Folder		Changed
Windows-Defender	Folder		Changed
Users	Folder		Changed
Windows	Folder		Changed
B appcompat	Folder		Changed
🗄 🗋 Prefetch	Folder		Changed
B System 32	Folder		Changed
E Temp	Folder		Changed
Add A Exclude			



Select Import files from the context menu of a folder, to which you want to import files.
 Edit package - PKG-190430-144511.mgp

me				Included: 111 files (158,8	MB) V	Collapse all
			Туре	Size	State	
C:			Folder		Change	ed
 Program Files (x86) 			Folder		Change	d
🗈 🔜 Mozilla Firefox			Folder		Added	
🖃 📕 Mozilla Maintenance Service			Folder		Added	
🗈 🛅 logs	Import files		Folder		Added	
maintenanceservice.exe	New subfolder		EXE	197,4 KB	Added	
Uninstall.exe	Properties F2		EXE	87,5 KB	Added	
updater.ini	Move to folder		INI	1,2 KB	Added	
 ProgramData 	Fuelude D	-1	Folder		Change	d
Microsoft	Exclude De	-	Folder		Change	d
E Search	Add to exclusion filter	,	Folder		Change	id
Windows	Delete Sh	nift+Del	Folder		Change	d
🗈 📄 Start Menu	APPV virtualization level		Folder		Change	d
🕀 🛄 wfp			Folder		Change	id
Windows Defender			Folder		Change	id
Users			Folder		Change	d
Windows			Folder		Change	:d
appcompat			Folder		Change	d
Prefetch			Folder		Change	:d
			Folder		Change	.d
🖽 🔄 Temp			Folder		Change	. d

• Select Add -> Add files to choose files in a folder or Add -> Add folder to choose a folder with subfolders and files.

¢	lmport files							×
				•				
				Files	Import COM			
	Files							
	Name		Size	Target path				
	Add files							
	Add Ioldel	Remove						
						Next >	Cancel	



 • Choose files, which you want to import, and click Open.

Select files					×
← → • ↑ 📙	« So	urces > MozillaFirefox > MyAppFiles1	✓ [™] Sear	ch MyAppFiles1	Q
Organize 🔻 Ne	w folde	er		:== ▼	. ?
- Quick accord		Name	Date modified	Туре	Size
		📓 config.ini	2/21/2017 2:38 PM	Configuration sett	1
Desktop	7	dmview.ocx	2/21/2017 2:38 PM	ActiveX control	112
Downloads	Ŕ	Mhctrl.ocx	2/21/2017 2:38 PM	ActiveX control	524
🔮 Documents	*	🚳 msdxm.ocx	2/21/2017 2:38 PM	ActiveX control	5
Pictures	1	M msscript.ocx	2/21/2017 2:38 PM	ActiveX control	101
		🚳 pdfshell.dll	2/21/2017 2:38 PM	Application extens	388
Onebiwe		Reader.helpcfg	2/21/2017 2:38 PM	HELPCFG File	1
💻 This PC		sysmon.ocx	2/21/2017 2:38 PM	ActiveX control	407
A Network		🔊 system.ini	2/21/2017 2:38 PM	Configuration sett	1
- NELWOIK		dtdc.ocx	2/21/2017 2:38 PM	ActiveX control	72
🔩 Homegroup		🚳 wshom.ocx	2/21/2017 2:38 PM	ActiveX control	123
		<			>
	File <u>n</u> a	ame: "config.ini" "dmview.ocx" "hhctrl.ocx"	"msdxm.ocx" "ms 🗸 🛛 All f	ïles (*.*)	\sim
				<u>O</u> pen Can	icel

• Click Next to exctact the COM information from the selected files.

Import files			_		×
		Files Import COM			
Files					
Name	Size	Target path			
config.ini	756 Bytes	C:\Program Files (x86)\Mozilla Maintenance Service\config.ini			
dmview.ocx	111,5 KB	C:\Program Files (x86)\Mozilla Maintenance Service\dmview.ocx			
hhctrl.ocx	523,5 KB	C:\Program Files (x86)\Mozilla Maintenance Service\hhctrl.ocx			
msdxm.ocx	5,0 KB	C:\Program Files (x86)\Mozilla Maintenance Service\msdxm.ocx			
msscript.ocx	100,5 KB	C:\Program Files (x86)\Mozilla Maintenance Service\msscript.ocx			
pdfshell.dll	387,1 KB	C:\Program Files (x86)\Mozilla Maintenance Service\pdfshell.dll			
Reader.helpcfg	862 Bytes	C:\Program Files (x86)\Mozilla Maintenance Service\Reader.helpcfg			
sysmon.ocx	407,0 KB	C:\Program Files (x86)\Mozilla Maintenance Service\sysmon.ocx			
system.ini	136 Bytes	C:\Program Files (x86)\Mozilla Maintenance Service\system.ini			
tdc.ocx	72,0 KB	C:\Program Files (x86)\Mozilla Maintenance Service\tdc.ocx			
wshom.ocx	123,0 KB	C:\Program Files (x86)\Mozilla Maintenance Service\wshom.ocx			
Add A Remove					
		Note State		Cancel	
□ Complete now without extrac	ting COM info	ormation Next >		Cancel	



• If the selected files contain COM information, it will be displayed at this step. To import these registry entries to the project, tick the Import COM information option and click Finish.

📦 Import file	s			_		×
		Files Import COM				
Import (COM					
						_
File	Root	Key	Value name	Value		*
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\Control				
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\InprocServer32	2	C:\Users\pace\De	sktop\So	u
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\InprocServer32	2 ThreadingModel	Apartment		
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\MiscStatus\1		131473		
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\MiscStatus		0		
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\ProgID		DiskManagemen	t.Control	
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\ToolboxBitmap	32	C:\Users\pace\De	sktop\So	u
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\TypeLib		{AEB84C80-95DC	-11D0-B7	F
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\Version		1.0		
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}		DiskManagemen	t.Control	
dmview.ocx	HKCR	CLSID\{AEB84C84-95DC-11D0-B7FC-B61140119C4A}\\InprocServer32	2	C:\Users\pace\De	sktop\So	u
dmview.ocx	HKCR	CLSID\{AEB84C84-95DC-11D0-B7FC-B61140119C4A}		DiskManagemen	t.Property	F
dmview.ocx	HKCR	DiskManagement.Control\CLSID		{AEB84C83-95DC	-11D0-B7	Ψ.
4					Þ	
Import C	OM informati	on				
		<	Back Fin	iish	Cancel	



3.8.2.6 Move File, Folder

Move a file or a folder from one folder to another.

• Go to the Files tab.

e Size der Size der Size der Size 197,4 KB 1,2 KB	State Changed Changed Added Added Added Added Added Added
ler ler ler ler 197,4 KE 1,2 KB	Changed Changed Added Added Added Added Added
ter 6475 197,4 KB 1,2 KB	Changed Added Added Added Added Added Added
ler er er 197,4 KE 87,5 KB 1,2 KB	Added Added Added Added Added
der 197,4 KB	Added Added Added Added
der 197,4 KE 87,5 KB 1,2 KB	Added Added Added
197,4 KE 87,5 KB 1,2 KB	Added Added
87,5 KB 1,2 KB	Added
1,2 KB	
	Added
ler	Changed
Jer lor	Changed
ler.	Changed
lar.	Changed
ier	Changed
	er

• Select Move to folder from the context menu of an item, which you want to move to another folder. NOTE Only the included files and folders could be moved. The excluded items are highlighted in yellow and crossed out.

Edit package - PKG-190430-144511.mgp					- 🗆 ×
≡ MENU Package Files S	Shortcuts\Apps Registry System	n resources			
Files and folders			Include	d: 111 files (158,8 MB)	Collapse all
Name			Туре	Size	State
🖃 C:			Folder		Changed
Program Files (x86)			Folder		Changed
🗉 🔜 Mozilla Firefox			Folder		Added
Mozilla Maintenance Service			Folder		Added
legs	Import files		Folder		Added
maintenanceservice.exe	New subfolder		EXE	197,4 KB	Added
Uninstall.exe	Properties E2		EXE	87,5 KB	Added
📄 updater.ini	Move to folder		INI	1,2 KB	Added
ProgramData	Exclude Del		Folder		Changed
Microsoft	Add to such size filter		Folder		Changed
E Search	Add to exclusion filter		Folder		Changed
Windows	Delete Shift+Del		Folder		Changed
🛨 📄 Start Menu	APPV virtualization level		Folder		Changed
			Folder		Changed
Windows Defender			Folder		Changed
Users			Folder		Changed
Windows			Folder		Changed
appcompat			Folder		Changed
Prefetch			Folder		Changed
System32			Folder		Changed
			Folder		Changed
Add • Exclude					



• Select a new destination location from the folders tree and click **Select**.

Select a folder	_	×
Name		
B C		
Program Files (x86)		
🖃 📕 Mozilla Firefox		
🕀 🖿 browser		
🗉 🔚 defaults		
fonts		
🕀 🖿 gmp-clearkey		
uninstall		
Mozilla Maintenance Service		
ProgramData		
Microsoft		
Users		
Public		
Windows		
Y Select Cancel		

• If sources of the moving files were copied to the project folder, you will get the confirmation dialog. Click **Change** to confirm the files relocation in the project and project folder. NOTE Resources, located outside the project folder, will not be moved on your file system.

🟮 MSI Ger	nerator	×
Q	Do you want to change the parent folder?	
	This operation will change the project folder structure on the file system and save the opened project.	
	Change <u>C</u> ancel	





3.8.2.7 Edit File Properties

Edit a name, installation folder and permissions (used for MSI only) of the file.

• Go to the Files tab.

me	Туре	Size	State
i C	Folder		Changed
Program Files (x86)	Folder		Changed
Mozilla Firefox	Folder		Added
Mozilla Maintenance Service	Folder		Added
🗈 🗋 logs	Folder		Added
i maintenanceservice.exe	EXE	197,4 KB	Added
Uninstall.exe	EXE	87,5-KB	Added
updater.ini	INI	1,2 KB	Added
ProgramData	Folder		Changed
Microsoft	Folder		Changed
Search	Folder		Changed
Windows	Folder		Changed
a start Menu	Folder		Changed
T C Windows Defender	Folder		Changed
	Folder		Changed
Use Sets	Folder		Changed
	Folder		Changed
	Folder		Changed
	Folder		Changed
T Temp	Eolder		Changed

• Select **Properties** from the context menu of a file, properties of which you want to edit. NOTE Only the included files could be edited. The excluded items are highlighted in yellow and crossed out.

Edit package - PKG-190430-1445	i11.mgp					- 🗆 X
≡ MENU Package F	iles Shortcuts\Apps	Registry	System resources			
Files and folders				Inclu	ded: 112 files (158,9 MB) V Collapse all
Name				Туре	Size	State
🖃 📉 C:				Folder		Changed
Program Files (x86)				Folder		Changed
Mozilla Firefox				Folder		Added
🖃 📗 Mozilla Maintenan	ce Service			Folder		Added
🕀 🛅 lags				Folder		Added
maintenancese	ervice.exe			EXE	197,4 KB	Added
Uninstall.exe	Import files			EXE	87,5 KB	Added
📄 updater.ini	New subfolder			INI	1,2 KB	Added
ProgramData	Proportion	F2		Folder		Changed
Microsoft	Properties	F2		Folder		Changed
🕀 🛅 Search	wove to tolder			Folder		Changed
Windows	Exclude	Del		Folder		Changed
🕀 🛅 Windows-Defe	Add to exclusion filter	•		Folder		Changed
Users	Delete	Shift+Del		Folder		Changed
	ADDV virtualization loval			Folder		Changed
Public	AFFV VIItualization level	,		Folder		Changed
Windows				Folder		Changed
appcompat				Folder		Changed
Prefetch				Folder		Changed
System32				Folder		Changed
🕀 🛄 Temp				Folder		Changed
Add • Exclude						



• Update the necessary values such as file Name and Target (installation) folder. For setting or removing Permissions, see section 3.8.6.4.6. Afterwards, click Save.

Properties			_		×
	General	Permissions			
File					
Name					
maintenanceservice.exe					
Target (installation) folder					
C:\Program Files (x86)\Mozil	la Maintenance	Service		Browse	
	Save	Cancel			





3.8.2.8 Edit Folder Properties

Edit a name, parent folder and permissions (used for MSI only) of the folder.

• Go to the Files tab.

me	Туре	Size	State
i C	Folder		Changed
Program Files (x86)	Folder		Changed
Mozilla Firefox	Folder		Added
Mozilla Maintenance Service	Folder		Added
🗈 🗋 logs	Folder		Added
i maintenanceservice.exe	EXE	197,4 KB	Added
Uninstall.exe	EXE	87,5-KB	Added
updater.ini	INI	1,2 KB	Added
ProgramData	Folder		Changed
Microsoft	Folder		Changed
Search	Folder		Changed
Windows	Folder		Changed
a start Menu	Folder		Changed
T C Windows Defender	Folder		Changed
	Folder		Changed
Use Sets	Folder		Changed
	Folder		Changed
	Folder		Changed
	Folder		Changed
T Temp	Eolder		Changed

• Select **Properties** from the context menu of a folder, properties of which you want to edit. NOTE Only the included folders could be edited. The excluded items are highlighted in yellow and crossed out.

© Edit package - PKG-190430-144511.mgp					- 🗆 X
≡ MENU Package Files S	Shortcuts\Apps Registry System	n resources			
Files and folders			Include	ed: 111 files (158,8 MB)	Collapse all
Name			Туре	Size	State
B C:			Folder		Changed
Program Files (x86)			Folder		Changed
🗉 🔜 Mozilla Firefox			Folder		Added
🖃 🔜 Mozilla Maintenance Service			Folder		Added
🕀 🛅 logs	Import files		Folder		Added
maintenanceservice.exe	New subfolder		EXE	197,4 KB	Added
Uninstall.exe	Properties F2		EXE	87,5-KB	Added
📄 updater.ini	Move to folder		INI	1,2 KB	Added
ProgramData	Evelude Del		Folder		Changed
Microsoft	Exclude Del		Folder		Changed
E Search	Add to exclusion filter		Folder		Changed
Windows	Delete Shift+Del		Folder		Changed
🕀 🔝 Start Menu	APPV virtualization level		Folder		Changed
€ 🗋 wfp			Folder		Changed
H 🗋 Windows Defender			Folder		Changed
Users			Folder		Changed
Windows			Folder		Changed
appcompat			Folder		Changed
Prefetch			Folder		Changed
System32			Folder		Changed
			Folder		Changed
Add • Exclude					

• Update the necessary values such as folder Name and Parent folder. For setting or removing Permissions, see section 3.8.6.4.6. Afterwards, click Save.

© Properties			_		×
	General	Permissions			
Folder					
Name					
Mozilla Maintenance Servic	e				
Parent folder			 		
C:\Program Files (x86)				Browse	
	Save	Cancel			





3.8.2.9 Delete File, Folder

Delete a file or a folder from the project and project folder on the file system.

• Go to the Files tab.

ne	Type	Size	State
	Folder		Changed
Program Files (x86)	Folder		Changed
Mozilla Firefox	Folder		Added
Mozilla Maintenance Service	Folder		Added
	Folder		Added
amintenanceservice.exe	EXE	197.4 KB	Added
Uninstall.exe	EXE	87.5 KB	Added
updater.ini	INI	1,2 KB	Added
ProgramData	Folder		Changed
Microsoft	Folder		Changed
🗉 🛄 Search	Folder		Changed
Windows	Folder		Changed
🚯 🔝 Start Menu	Folder		Changed
🕀 🛄 wfp	Folder		Changed
Windows Defender	Folder		Changed
🗉 🔄 Users	Folder		Changed
B Windows	Folder		Changed
🗈 🛅 appcompat	Folder		Changed
🗷 🛅 Prefetch	Folder		Changed
E System32	Folder		Changed
🗄 🛄 Temp	Folder		Changed



• As the **Delete** is available only for the excluded resources, first exclude an item, which you want to delete, selecting **Exclude** from the context menu. Note that the excluded items are highlighted in yellow and crossed out.

Edit package - PKG-190430-1	44511.mgp				– 🗆 ×
≡ MENU Package	Files Shortcuts\Apps Rec	istry System resources			
Files and folders			Include	ed: 111 files (158,8 MB)) V Collapse all
Name			Туре	Size	State
🖃 C:			Folder		Changed
Program Files (x86)			Folder		Changed
\star 📄 Mozilla Firefox			Folder		Added
🖃 🔛 Mozilla Mainte	nance Service		Folder		Added
🕀 🛅 logs	Import files		Folder		Added
📄 maintenan	New subfolder		EXE	197,4 KB	Added
Uninstall.e	Properties E2		EXE	87,5 KB	Added
📄 updater.ini	Move to folder		INI	1,2 KB	Added
ProgramData	Fuelude Del		Folder		Changed
Microsoft	Exclude Del		Folder		Changed
🗈 🔄 Search	Add to exclusion filter	•	Folder		Changed
Windows	Delete Shift+De	21	Folder		Changed
Start N	APPV virtualization level	•	Folder		Changed
. Pr¢			Folder		Changed
🕀 🛄 wfp			Folder		Changed
Windows-D	efender		Folder		Changed
Users			Folder		Changed
■ pace			Folder		Changed
Public			Folder		Changed
Windows			Folder		Changed
appcompat			Folder		Changed
Prefetch			Folder		Changed
			Folder		Changed
• Temp			Folder		Changed
Add Evolude					
	2				

• If the selected file or folder has references from the registry, shortcuts or apps, these references will be displayed in the following dialog. Click Exclude to exclude the linked items in order to maintain the project integrity.

S MSI Generator	-	×
Do you want to exclude the linked resource? Exclude the linked resources in order to maintain the project integrity.		
Select all/none		
Registry 'HKEYLOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\UFH\ARP\121'		
I Registry 'HKEYLOCAL_MACHINE\System\CurrentControlSet\Services\MozillaMaintenance\ImagePath'		
Exclude Cancel		



 Select Delete from the context menu of the excluded item, which you want to delete from the project.

© Edit package - PKG-190430-144511.mgp	1					- 🗆	×
- MENO Fackage Files	Shortcuts (Apps Rei	jistry sy:	stem resources				
Files and folders				Include	d: 109 files (158,6 MB)	Collapse a	all
Name				Туре	Size	State	
G C:				Folder		Changed	
Program Files (x86)				Folder		Changed	
🗉 🔛 Mozilla Firefox				Folder		Added	
🖃 🛄 Mozilla Maintenance Servic	se .		_	Folder		Added	
🗈 🛅 logs	Import files			Folder		Added	
maintenanceservice.ex	New subfolder			EXE	197,4 KB	Added	
Uninstall.exe	D II	50		EXE	87,5-KB	Added	
📄 updater.ini	Properties	FZ		INI	1,2 KB	Added	
ProgramData	Move to folder			Folder		Changed	
Microsoft	Include	Ins		Folder		Changed	
Search	Add to exclusion filter	•		Folder		Changed	
Windows	Delete	Shift+Del		Folder		Changed	
🖃 📄 Start Menu	APPV virtualization love	L •		Folder		Changed	
Programs		, ,		Folder		Changed	
🗉 🛄 wfp				Folder		Changed	
Windows Defender				Folder		Changed	
Users				Folder		Changed	
				Folder		Changed	
Public				Folder		Changed	
Windows				Folder		Changed	
appcompat				Folder		Changed	
Prefetch				Folder		Changed	
System32				Folder		Changed	
E Temp				Folder		Changed	
Add 🔺 Delete							

• If sources of the deleting files were copied to the project folder, you will get the confirmation dialog. Click **Delete** to confirm the files deletion form the project and project folder. NOTE Resources, located outside the project folder, will not be deleted from your file system.

i MSI Ger	enerator	×
Q	Do you want to permanently delete	this folder?
	This operation will delete the folder with all of its subfol from the project folder on the file system and save the	ders and files opened project.
	Delete <u>C</u> ancel	



3.8.3 Registry

Choose a scenario that better suits your needs:

- Exclude Registry, described in section 3.8.3.1 Exclude the unnecessary registry keys and values from the project.
- Include Excluded Registry, described in section 3.8.3.2 Include the necessary registry keys and values, previously excluded from the project.
- Add Registry Key, described in section 3.8.3.3 Add a new registry key or sub-key.
- Add Registry Value, described in section 3.8.3.4 Add a new registry value.
- Import Registry, described in section 3.8.3.5 Import registry from the REG file to the project.
- Export Registry, described in section 3.8.3.6 Export registry from the project to the REG file.
- Move Value, Key, described in section 3.8.3.7 Move a registry value or a key from one parent key to another one.
- Edit Registry Key, described in section 3.8.3.8 Modify details of the selected registry key.
- Edit Registry Value, described in section 3.8.3.9 Modify details of the selected registry value.
- Delete Value, Key, described in section 3.8.3.10 Delete a registry value or a key from the project.





3.8.3.1 Exclude Registry

Exclude the unnecessary registry keys and values from the project.

• Go to the **Registry** tab.

	Turne	Volue	State
	Type	Value	State
	System nive		
	System nive		Changed
	Key		Changed
	Key		Changed
	System hive		changed
SOFTWARE	Kev		Changed
Classes	Key		Changed
Clients	Key		Changed
😠 🔚 Microsoft	Key		Changed
🕢 🔚 Mozilla	Key		Added
🗷 🛅 Policies	Key		Changed
Registered Applications	Key		Changed
WOW6432Node	Key		Changed
🖃 🔤 System	Key		Changed
CurrentControlSet	Key		Changed
HKEY_USERS	System hive		
🛛 🛅 -DEFAULT	Key		Changed
Software	Key		Changed

• Select Exclude from the context menu of an item, which you want to exclude from the project. Note that the excluded items are highlighted in yellow and crossed out.

egistiy				Inc	luded: 113 Values
lame			Туре	Value	State
HKEY_CLASSES	ROOT		System hive		
HKEY_CURREN	T_USER		 System hive		
Software	In a star state :		Key		Changed
€ Classe	Import registry		Key		Changed
Micro	Export registry		Key		Changed
HKEY_LOCAL_	New key		System hive		
SOFTWAR	New value		Key		Changed
Classe			Key		Changed
Client:	Properties	F2	Key		Changed
Micro	Move to		Key		Changed
Mozili	Exclude	Del	Key		Added
E Policie	Add to exclusion filter	•	Key		Changed
H Kegist	Delete	Shift+Del	Key		Changed
U WOW			Кеу		Changed
System	APPV Virtualization level	,	Кеу		Changed
	Controiset		Key		Changed
			System hive		Charles 1
			Key		Changed
	~		ney		onangea



3.8.3.2 Include Excluded Registry

Include the necessary registry keys and values, previously excluded from the project.

• Go to the **Registry** tab.

gistry		Included	. TIS Values
me	Туре	Value	State
HKEY_CLASSES_ROOT	System hive		
HKEY_CURRENT_USER	System hive		
Software	Key		Changed
Classes	Key		Changed
Microsoft	Key		Changed
HKEY_LOCAL_MACHINE	System hive		
SOFTWARE	Key		Changed
	Key		Changed
Clients	Key		Changed
Microsoft	Key		Changed
Mozilia	Key		Added
	Key		Changed
KegisteredApplications	Key		Changed
WOW6432N0de	Key		Changed
System	Key		Changed
	Key		Changed
	System-nive		Channel
	Key		Changed

• Select **Include** from the context menu of an item, which you want to include back to the project.

© Edit package - PKG-190	430-144511.mgp						- 🗆	×
≡ MENU Packag	ge Files Shortcuts\Ap	ps Registry	System resources					
Registry						Included: 113 values	Collapse a	əll
Name				Туре	Value		State	
HKEY_CLASSES_F	ROOT			System hive				
HKEY_CURRENT_	USER			System hive				
🖃 📗 Software				Key			Changed	
				Key			Changed	
Microsof	t			Key			Changed	
HKEY_LOCAL_MA	ACHINE			System hive				
SOFTWARE				Key			Changed	
🕀 🔛 Classes				Key			Changed	
🕀 🔛 Clients				Key			Changed	
Hicrosof	t			Key			Changed	
🕀 🖿 Mozilla				Key			Added	
Policies				Key			Changed	
🕀 🔚 Register	Import registry			Key			Changed	
WOW64	Export registry			Key			Changed	
System	New key			Key			Changed	
Current	New value			Key			Changed	
HKEY_USERS				System hive				
DEFAULT	Properties F2			Key			Changed	
E Softwar	Move to			Key			Changed	
	Include In:	s						
	Add to exclusion filter	•						
	Delete Sh	nift+Del						
	APPV virtualization level							
Add 🔺 🛛 🖸	Delete							





3.8.3.3 Add Registry Key

Add a new registry key or sub-key.

• Go to the **Registry** tab.

ame Type HKEY_CLASSES_ROOT System HKEY_CURRENT_USER System Software Key Image: Constraint of the system System Image: Constraint of the system Key Image: Constraint of the system Key	e Value State tem hive r Changed r Changed r Changed r Changed r Changed r Changed
HKEY_CLASSES_ROOT System HKEY_CURRENT_USER System Software Key Classes Key Microsoft Key Microsoft Key SOFTWARE Key Classes Key Classes Key Classes Key Classes Key Classes Key Classes Key	tem hive changed r Changed
HKEY_CURRENT_USER System Software Key Classes Key Microsoft Key HKEY_LOCAL_MACHINE System SOFTWARE Key Classes Key Classes Key Classes Key Classes Key Classes Key	tem hive Changed r Changed r Changed r Changed r Changed r Changed r Changed
Software Key B) Classes Key B) Microsoft Key HKEY_LOCAL_MACHINE System SOFTWARE Key B) Classes Key B) Classes Key B) Classes Key B) Classes Key B) Clients Key	r Changed r Changed r Changed tem hive r Changed
Classes Key Microsoft Key Key HKEY_LOCAL_MACHINE System SOFTWARE Key Classes Key Classes Key Clients Key Clients Chirosoft Conconting Chirosoft Chirosoft Chirosoft Key Chirosoft Chirosoft Chirosoft Chirosoft Chirosoft Chirosoft Chirolity Chirolity Chirolity Chirolity Chirolity Chirolity	Changed / Changed / Changed / Changed / Changed
Image: Microsoft Key Image: Microsoft System Image: Microsoft Key Image: Microsoft Key	/ Changed tem hive / Changed Changed
HKE_LOCAL_MACHINE System SOFTWARE Key Classes Key Clients Key	rem hive Changed
B Classes Key B Classes Key B Clients Key	(Changed
Image: Classes Key Image: Clients Key	
H Clients Key	/ Changed
+ MUCTOSOT	/ Changed
Marilla Kay	/ Changed
Rey Net	Added
Ponces Aey Aey	Changed Changed
WOW6432Node Key	Changed Changed
R System Key	/ Changed
GyrentControlSet Key	/ Changed
THEY USERS Swstem	tam hive
	Changed
Software Key	¢ Changed

• Select New key from the context menu of a root hive or a key, where you want to create a new registry key. NOTE The new key could be created only in the included hives and keys. The excluded items are highlighted in yellow and crossed out.

Name Type HKEY_CLASSES_ROOT Syste HKEY_CURRENT_USER Syste Software Key Microe Export registry HKEY_LOCAL New key New key Syste Software Key HKEY_LOCAL New key New key Syste	pe Value State stem hive stem hive y Changed y Changed y Changed
HKEY_CLASSES, ROOT Syste HKEY_CURRENT_USER Syste Software Key Export registry Key HKEY_LOCAL New key Software Syste	stem hive
INEEY_CURRENT_LISER Syste Software Key Import registry Key Syste Key Software Key Key Key Import registry Key	stem hive changed changed y Changed y Changed y Changed
Image: Software Key Key Image: Software Image: Software Key Image: Software Key Key Image: Software New key Syste Image: Software New value Key	y Changed y Changed y Changed Changed
Classe Import registry Key Micro Export registry Key New key New key New value Key	Y Changed y Changed
Micro Export registry Key Key Key Syste Softwar New key New value Key	y Changed
SOFTWAR New value Key	
New value Key	stem hive
(I) Classe	y Changed
Key Key	y Changed
Misro Mausta	y Changed
	y Changed
Exclude Del	y Changed
Add to exclusion filter	y Changed
Delete Shift+Del	v Changed
System APPV virtualization level	v Changed
CurrentControlSet Key	y Changed
HKEY_USERS System	stem hive
DEFAULT Key	y Changed
🗈 🛅 Software Key	y Changed



• Enter a key name and click Sa

5.2 - Getting Started				•	
ter a key name and cli	ick Save.				
Properties			_	\Box ×	
	General	Permissions			
Kau					
Name					
				•	
Parent key					
Software			E	Browse	
Root					
HKEY_CURRENT_USER				~	
	Save	Cancel			
	Jave	Cancer			


3.8.3.4 Add Registry Value

Add a new registry value.

• Go to the Registry tab.

			_		ded. Its values
Jame			Туре	Value	State
HKEY_C	LASSES_ROOT		System hive		
HKEY_C	URRENT_USER		System hive		
Ξ 50π	ciana a		Key		Changed
•	Glasses		Key		Changed
			Key Curton bios		Changed
			System nive		Changed
	Classes		Key		Changed
	Clients		Key		Changed
	Microsoft		Key		Changed
	Mozilla		Key		Added
•	Policies		Key		Changed
	RegisteredApplications		Key		Changed
•	WOW6432Node		Key		Changed
🖃 🔚 Syst	tem		Key		Changed
+	CurrentControlSet		Key		Changed
B 📄 HKEY_U	ISERS		System hive		
🖃 🛄 "ĐEF	FAULT		Key		Changed
• 🗀	Software		Key		Changed

• Select New value from the context menu of a key, where you want to create a new registry value. NOTE The new value could be created only in the included keys. The excluded items are highlighted in yellow and crossed out.

Edit package - PKG-19	0430-144511.mgp							-	\Box \times
≡ MENU Packa	ge Files Shortcu	ts\Apps	Registry	System resources					
Registry							Included: 113 values	Colla	apse all
Name					Туре	Value		State	
HKEY_CLASSES_	ROOT				System hive				
HKEY_CURRENT	USER				System hive				
🖃 🔛 Software			1		Key			Changed	
🕀 🛄 Glasse	Import registry				Key			Changed	
🕀 🛄 Micro	Export registry				Key			Changed	
HKEY_LOCAL_	New key				System hive				
SOFTWAR	New value				Key			Changed	
🕀 🔛 Classe	TVCW Value				Key			Changed	
🕀 🔚 Client	Properties	F2			Key			Changed	
Micro	Move to				Key			Changed	
🕀 📕 Mozill	Exclude	Del			Key			Added	
🕀 🛄 Policie	Add to exclusion filter	+			Key			Changed	
Regist	Delete	Shift+Del			Key			Changed	
• WOW					Key			Changed	
System	APPV virtualization leve	•			Key			Changed	
	ControlSet				Key			Changed	
					System hive				
					Key			Changed	
	8				Key			Changed	
Add 🔺 E	xclude								

• Enter a value Name, Value itself and select the respective value Type from the list. NOTE The Initial value before capturing is just an informative read-only field that displays an original value that was on the system before the capturing and then was changed during the

e 5.2 - Getting Started		•
apturing process. Click Save to add a value.		
Properties	- 0	×
Value		
Name		
		•
L) Set <deafault> key value</deafault>		
Type String value (PEG_SZ)		~
value		
Key	Brown	-
Soltware	biow.	se
HKEY CURRENT USER		~
Save Cancel		



3.8.3.5 Import Registry

Import registry from the REG file to the project.

• Go to the **Registry** tab.

Imp Type Imp Type Imp System Imp System Imp System Imp Software Imp Classes Imp Software	Value State Value State value	
HKEY_CLASSES_ROOT System HKEY_CURRENT_USER System Software Key Classes Key Microsoft Key SOFTWARE System SOFTWARE Key Classes Key Microsoft Key	n hive Changed n hive Changed Changed n hive Changed C	
HKEY_CURRENT_USER System Software Key Classes Key Image: Classes Key	n hive Changed Changed I Changed Changed I Cha	
Software Key Classes Key Image: Classes	hive Changed	
Image: Classes Key Image: Microsoft Key Image: Microsoft System Image: Microsoft Key	n hive Changed	
Image: Microsoft Key	n hive Changed	
HKE_LOCAL_MACHINE System SOFTWARE Key Classes Key Clients Key Microsoft Key Mozilia Key	changed	
B SOFTWARE Key B Classes Key B Clients Key B Microsoft Key B Mozilia Key	Changed	
(b) Classes Key (B) Clients Key (B) Microsoft Key (B) Mozilia Key		
Image: Clients Key Image: Clients Key Image: Clients Key Image: Clients Key	Changed	
Image: Second	Changed	
Rey Nozilia	Changed	
Delicier Kar	Added	
Pointers Ney Ney	Changed	
Key	Changed	
Sustem Key	Changed	
CurrentControlSet Key	Changed	
C HKEY USERS Sustem	n hive	
	Changed	
Software Key	Changed	

• Select Add -> Import registry from the toolbox.

© Edit package - PKG-190430-144511.mgp			- 🗆 ×
≡ MENU Package Files Shortcuts\Apps Registry System resources			
Registry		Included: 113 values	√ Collapse all
Name	Туре	Value	State
HKEY_CLASSES_ROOT	System hive		
HKEY_CURRENT_USER	System hive		
G Software	Key		Changed
Classes	Key		Changed
Microsoft	Key		Changed
HKEY_LOCAL_MACHINE	System hive		
SOFTWARE	Key		Changed
Classes	Key		Changed
Clients	Key		Changed
Microsoft	Key		Changed
Mozilla	Key		Added
Policies	Key		Changed
RegisteredApplications	Key		Changed
WOW6432Node	Key		Changed
System	Key		Changed
CurrentControlSet	Key		Changed
	System hive		
	Key		Changed
Software	Key		Changed
Import registry Key Value Add • Exclude			



•

Click Add to select a REG file.			
Import registry		- 🗆 🗙	
Registry to import			
Key	Value name	Value	
Add Remove		Entries:0	
	Imp	ort Cancel	

• Choose a REG file and click Open.

Open							×	<
$\leftarrow \rightarrow \cdot \cdot \uparrow$	« Desk	top > Sources > MozillaFirefox >		~ Ō	Searc	h MozillaFirefox	Q	
Organize 👻 Ne	w folder					· •		
A Quick access		Name ^	Date 9/20/	modified /2018 4:18	8 PM	Type File folder	Size	
Desktop	×	Prev versions	9/20/	/2018 4:18	PM	File folder		
🔶 Downloads	*	鹶 RegistrySettigns2.reg	2/21/	/2017 2:38	PM	Registration Entrie	es	2
Documents	*	RegistrySettings1.reg	9/20/	/2018 4:19	PM	Registration Entrie	es	5
Pictures	*	鹶 RegistrySettings3.reg	2/21/	/2017 2:38	PM	Registration Entrie	25	4
 OneDrive This PC Network Homegroup 								
	<							>
	File <u>n</u> am	ne: RegistrySettigns2.reg		~	Regi	stry files (*.reg) <u>O</u> pen	∨ Cancel	.:



• Review the parsed registry values from the selected REG file, remove the unnecessary ones and click **Import** to complete the operation.

Registry to import			
Key	Value name	Valu	e
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\Alt\Descriptior	Description	Use /	Alt to activa
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\Alt\Sequence	Sequence	F9	
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\Alt\DisableOut}$	DisableOutput	1	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\Alt\RunAfterFA	RunAfterFARStart	0	
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\Alt\EmptyCom}$	EmptyCommandLine	0	
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\Alt\NotEmptyC}$	NotEmptyCommandLine	0	
$\label{eq:hkey_current_user_set} \\ Hkey_current_user\scaleset \end{tabular} \\ Hkey_current\scaleset \end{tabular} $	Description	Use	Right Alt to
HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\RAlt\Seq	Sequence	Esc	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\RAlt\Disa	DisableOutput	1	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\RAlt\Rur	RunAfterFARStart	0	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\RAlt\Emj	EmptyCommandLine	0	
HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\RAlt\Not	NotEmptyCommandLine	0	
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\RAlt\Descriptic}$	Description	Use	Right Alt to
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\RAIt\Sequence	Sequence	F9	
	DisableO.da.d	4	÷
Add Remove			Entries:2
	Import		Cancel



3.8.3.6 Export Registry

Export registry from the project to the REG file

• Go to the **Registry** tab.

egistry		Included: 113	/alues V Collapse a
ame	Туре	Value	State
HKEY_CLASSES_ROOT	System hive		
HKEY_CURRENT_USER	System hive		
B Software	Key		Changed
Classes	Key		Changed
🕀 🛅 Microsoft	Key		Changed
HKEY_LOCAL_MACHINE	System hive		
SOFTWARE	Key		Changed
Classes	Key		Changed
Clients	Key		Changed
Microsoft	Key		Changed
Mozilla	Key		Added
Policies	Key		Changed
RegisteredApplications	Key		Changed
WOW6432Node	Key		Changed
System	Key		Changed
CurrentControlSet	Key		Changed
	System hive		
	Key		Changed
± Software	Key		Changed

• Select Export from the context menu of a registry key or value, which you want to export to the REG file.

Edit package - PKG-19	90430-144511.mgp							- 0	I X
≡ MENU Packa	age Files Shortcu	ts\Apps	Registry Sy	stem resources					
Registry							Included: 113 values	Collap	se all
Name					Туре	Value		State	
HKEY_CLASSES	ROOT				System hive				
HKEY_CURREN	T_USER				System hive				
🖃 🔛 Software			1		Key			Changed	
🕀 🛄 Glasse	Import registry				Key			Changed	
Micro:	Export registry				Key			Changed	
HKEY_LOCAL_	New key				System hive				
🖃 🔚 SOFTWAR	New value				Key			Changed	
🕀 🔚 Classe	New value				Key			Changed	
🕀 🔚 Client	Properties	F2			Key			Changed	
🕀 🖿 Micro:	Move to				Кеу			Changed	
🕀 🖿 Mozili	Exclude	Del			Кеу			Added	
🕀 🛄 Policie	Add to exclusion filter	•			Key			Changed	
🕀 🔚 Regist	Delete	Shift+Del			Кеу			Changed	
					Кеу			Changed	
🖃 🔛 System	APPV virtualization leve	•			Кеу			Changed	
🕀 🔛 Curren	tControlSet				Key			Changed	
HKEY_USERS					System hive				
DEFAULT					Key			Changed	
🗈 🛅 Softwa	re				Key			Changed	
Add 🔺	Exclude								



• Specify a name and destination location of the REG file and click Save.

Please, select targe	et reg file name		×
	- > This PC > Downloads -> C	م :	
Organize 👻 Ne	ew folder	EE • ?	
📌 Quick access 🛄 Desktop	Name Date modified Type No items match your search.	Size	
 Downloads Documents Pictures 	* * *		
ConeDrive This PC			
Network			
•4 Homegroup	×		
File <u>n</u> ame:			\sim
Save as <u>t</u> ype:	Registry files (*.reg)		\sim
 Hide Folders 	Save	Cancel]

3.8.3.7 Move Value, Key

Move a registry value or a key from one parent key to another one.

• Go to the **Registry** tab.

gistry		Included:	113 values 💙 Collapse
me	Туре	Value	State
HKEY_CLASSES_ROOT	System hive		
HKEY_CURRENT_USER	System hive		
G Software	Key		Changed
Glasses	Key		Changed
🕢 🔝 Microsoft	Key		Changed
HKEY_LOCAL_MACHINE	System hive		
SOFTWARE	Key		Changed
🕀 🔚 Classes	Key		Changed
Clients	Key		Changed
🕀 🔚 Microsoft	Key		Changed
🕀 🛅 Mozilla	Key		Added
🗉 🛅 Policies	Key		Changed
RegisteredApplications	Key		Changed
WOW6432Node	Key		Changed
B System	Key		Changed
	Key		Changed
HKEY_USERS	System hive		
🛛 🛅 -DEFAULT	Key		Changed
Software	Key		Changed

• Select Move to from the context menu of a registry key or a value, which you want to move to another key. NOTE Only the included registry keys and values could be moved. The excluded



items are highlighted in yellow and crossed out.

Edit package	- PKG-19	0430-144511.mgp							;	×
≡ menu	Packa	ge Files	Shortcuts\Apps	Registry	System resources					
Registry								Included: 113 values	Collapse all	
Name						Туре	Value		State	
HKEY	CLASSES_	ROOT				System hive				1
HKEY_	CURRENT	_USER				System hive				
🖃 🔚 So	ftware			_		Key			Changed	
•] Classe	Import registry	/			Key			Changed	
•	Micro	Export registry				Key			Changed	
HKEY_	LOCAL_	New key		-		System hive				
🖃 🔜 SC	FTWAR	New value				Key			Changed	
±	Classe	New value		-		Key			Changed	
•	Client	Properties	F2			Key			Changed	
•	Micro	Move to				Key			Changed	
•	Mozill	Exclude	Del			Key			Added	
•] Policie	Add to exclusi	on filter	•		Key			Changed	
•	Regist	Delete	Shift+De			Key			Changed	
•	wow	berete	onine oc	-		Key			Changed	
🖃 🔜 Sys	stem	APPV virtualiza	ation level	•		Key			Changed	
•	Current	ControlSet				Key			Changed	
	USERS					System hive				
H. 🗋 🗉	EFAULT					Key			Changed	
•	Software	2				Key			Changed	
Add 🔺	E	xclude								

• Select a new destination key from the registry tree and click Select.

Select a key —	×
Name	
HKEY_CLASSES_ROOT	
HKEY_CURRENT_USER	
🖃 🛄 Software	
🕀 🔤 Microsoft	
HKEY_LOCAL_MACHINE	
SOFTWARE	
Classes	
Clients	
🗉 🔜 Microsoft	
🗉 🔤 Mozilla	
Registered Applications	
🗉 🔤 WOW6432Node	
🖃 🔤 System	
E CurrentControlSet	
V Select Cancel	



3.8.3.8 Edit Registry Key

Modify details of the selected registry key.

• Go to the Registry tab.

gisu y		Included: 113 values	u Conapse
me	Туре	Value	State
HKEY_CLASSES_ROOT	System hive		
HKEY_CURRENT_USER	System hive		
Software	Key		Changed
Classes	Key		Changed
Microsoft	Key		Changed
HKEY_LOCAL_MACHINE	System hive		
SOFTWARE	Key		Changed
	Key		Changed
Clients	Key		Changed
Microsoft	Key		Changed
	Key		Added
Policies	Key		Changed
RegisteredApplications	Key		Changed
WWW6432Node	Key		Changed
System	Key		Changed
	Key		Changed
	System nive		C
	Key		Changed
	Ney		Ghangeo

• Select **Properties** from the context menu of a registry key, details of which you want to review and modify. NOTE Only the included registry keys could be edited. The excluded items are highlighted in yellow and crossed out.

Edit package - PKG-1	90430-144511.mgp							- C	<u>× с</u>
≡ MENU Pack	age Files Shortcu	ts\Apps	Registry	System resources					
Registry							Included: 113 values	V Collap	se all
Name					Туре	Value		State	
HKEY_CLASSES	S_ROOT				System hive				
HKEY_CURREN	IT_USER				System hive				
🖃 🔚 Software			1		Key			Changed	
🕀 🛄 Classe	Import registry				Key			Changed	
Micro	Export registry				Key			Changed	
HKEY_LOCAL_	New key				System hive				
🖃 🛄 SOFTWAR	New value				Key			Changed	
🕀 🔛 Classe	New Value				Key			Changed	
E Client:	Properties	F2			Key			Changed	
🕀 🔜 Micro:	Move to				Key			Changed	
🕀 🖿 Mozili	Exclude	Del			Key			Added	
🕀 🛄 Policie	Add to exclusion filter	•			Key			Changed	
🕀 🔜 Regist	Delete	Shift+Del			Key			Changed	
🗉 🔛 WOW					Key			Changed	
🖃 🚞 System	APPV virtualization leve	•			Key			Changed	
🕀 🔛 Curren	tControlSet		-		Key			Changed	
HKEY_USERS					System hive				
B DEFAULT					Key			Changed	
🕀 🛄 Softwa	re				Key			Changed	
Add -									
Add 🔺	Exclude								

Update the necessary values such as key Name, Parent key and Root hive. You can modify the
Parent key directly in the text field or use Browse to choose a new key from the registry tree.
Note that changing the Parent key and/or the Root hive will result in moving the selected key

to a new location. For setting or removing permissions, see section 3.8.6.6. Afterwards, click Save.

Jave.			 		
Properties			- 1		×
	General	Permissions			
Кеу					
Name					
Software					
Parent key					
			Bro	wse	
Root					
HKEY_CURRENT_USER					~
	Save	Cancel			
	Jave	Concer			



3.8.3.9 Edit Registry Value

Modify details of the selected registry value.

• Go to the **Registry** tab.

egistry		Included: 113 values 💙 Collapse
ame	Type Value	State
HKEY_CLASSES_ROOT	System hive	
HKEY_CURRENT_USER	System hive	
G Software	Key	Changed
Glasses	Key	Changed
🗉 🔚 Microsoft	Key	Changed
HKEY_LOCAL_MACHINE	System hive	
SOFTWARE	Key	Changed
🗉 🔚 Classes	Key	Changed
🗉 🔚 Clients	Key	Changed
🗄 🔚 Microsoft	Key	Changed
🗄 🔚 Mozilla	Key	Added
🕀 🛅 Policies	Key	Changed
RegisteredApplications	Key	Changed
WOW6432Node	Key	Changed
System	Key	Changed
CurrentControlSet	Key	Changed
HKEY_USERS	System hive	
	Key	Changed
Software	Key	Changed

• Select **Properties** from the context menu of a registry value, details of which you want to review and modify. NOTE Only the included registry values could be edited. The excluded items are highlighted in yellow and crossed out.

😂 Edit package - PKG-190430-144511.mgp					- 0	×
≡ MENU Package Files Shortcu	ıts\Apps <mark>Registry</mark>	System resources				
Registry				Included: 113 values	Collaps	se all
Name			Туре	Value	State	*
HKEY_CLASSES_ROOT			System hive			
HKEY_CURRENT_USER			System hive			
🖃 🔜 Software			Key		Changed	
Classes			Key		Changed	
Microsoft			Key		Changed	
HKEY_LOCAL_MACHINE			System hive			
SOFTWARE			Key		Changed	
Classes			Key		Changed	
Clients			Key		Changed	
StartMenuInternet			Key		Changed	
Firefox-E7CF176E110C211B			Key		Added	
🖃 🔛 Capabilities			Key		Added	
FileAssociations			Key		Added	
🗉 🔝 StartMenu			Key		Added	
URLAssociations			Key		Added	
🗞 ApplicationDescription	In the second second second		String value	Firefox delivers safe, easy web browsing. A familiar user inte	Added	
🗞 ApplicationIcon	Import registry		String value	C:\Program Files (x86)\Mozilla Firefox\firefox.exe,0	Added	
🗞 ApplicationName	Export registry		String value	Firefox	Added	
🗉 📄 Defaulticon	New key		Key		Added	
🗉 🔝 InstallInfo	New value		Key		Added	
🗉 💼 shell			Key		Added	
🗞 (Default)	Properties	F2	String value	Mozilla Firefox	Added	
🗉 🔝 Microsoft	Move to		Key		Changed	
🗉 🔛 Mozilla	Exclude	Del	Key		Added	
Policies	Delete	Shift+Del	Key		Changed	-
Add • Exclude	APPV virtualization	level				

• Update the necessary values such as value Name, Type and Value itself. Also, you can change a value location specifying a new Key and Root hive. You can modify the Key directly in the text field or use Browse to choose a new key from the registry tree. NOTE The Initial value

before capturing is just an informative read-only field that displays an original value that was on the system before the capturing and then was changed during the capturing process. Afterwards, click Save.

Properties		_		>
Value				
Name				
ApplicationDescription				
Set <deafault> key valu</deafault>	ue			
Туре				
				~
String value (REG_SZ)				
String value (REG_SZ) Value Firefox delivers safe, easy	/ web browsing. A familiar user interface, enh	anced sec	urity fea	ture
String value (REG_SZ) Value Firefox delivers safe, easy Initial value before capturing	/ web browsing. A familiar user interface, enh	anced sec	urity fea	ture)
String value (REG_SZ) Value Firefox delivers safe, easy Initial value before capturing	/ web browsing. A familiar user interface, enh	anced sec	urity fea	ture •
String value (REG_SZ) Value Firefox delivers safe, easy Initial value before capturing	/ web browsing. A familiar user interface, enh	anced sec	urity fea	ture •
String value (REG_SZ) Value Firefox delivers safe, easy Initial value before capturing Key	/ web browsing. A familiar user interface, enh	anced sec	urity fea	ture •
String value (REG_SZ) Value Firefox delivers safe, easy Initial value before capturing Key SOFTWARE\Clients\Start	y web browsing. A familiar user interface, enh MenuInternet\Firefox-E7CF176E110C211B\Cap	anced sec	Browse.	ture ▶
String value (REG_SZ) Value Firefox delivers safe, easy Initial value before capturing Key SOFTWARE\Clients\Start1 Root	/ web browsing. A familiar user interface, enh MenuInternet\Firefox-E7CF176E110C211B\Cap	anced sec	Browse.	ture ▶
String value (REG_SZ) Value Firefox delivers safe, easy Initial value before capturing Key SOFTWARE\Clients\Startl Root HKEY_LOCAL_MACHINE	/ web browsing. A familiar user interface, enh	anced sec	Browse.	ture
String value (REG_SZ) Value Firefox delivers safe, easy Initial value before capturing Key SOFTWARE\Clients\Startl Root HKEY_LOCAL_MACHINE	y web browsing. A familiar user interface, enh MenuInternet\Firefox-E7CF176E110C211B\Cap	anced sec	Browse.	ture



3.8.3.10 Delete Value, Key

Delete a registry value or a key from the project.

• Go to the **Registry** tab.

ame	Type	Value	State
HKEY CLASSES ROOT	System hive		
HKEY CURRENT USER	System hive		
Software	Key		Changed
Classes	Key		Changed
🗉 🔚 Microsoft	Key		Changed
HKEY_LOCAL_MACHINE	System hive		
SOFTWARE	Key		Changed
Classes	Кеу		Changed
🗉 🔚 Clients	Key		Changed
🗉 🔚 Microsoft	Key		Changed
🕀 🔚 Mozilla	Key		Added
Policies	Key		Changed
RegisteredApplications	Key		Changed
WOW6432Node	Key		Changed
🖃 🚞 System	Key		Changed
CurrentControlSet	Кеу		Changed
HKEY_USERS	System hive		
	Key		Changed
Software	Key		Changed

• As the **Delete** is available only for the excluded resources, first exclude an item, which you want to delete, selecting **Exclude** from the context menu. Note that the excluded items are highlighted in yellow and crossed out.

Edit package - PKG-19	90430-144511.mgp							- 🗆	×
≡ MENU Packa	age Files Shortcu	ts\Apps	Registry	System resources					
Registry							Included: 113 values	Collapse all	
Name					Туре	Value		State	
HKEY_CLASSES	ROOT				System hive				Т.
HKEY_CURREN	T_USER				System hive				
🖃 🔛 Software			-		Key			Changed	
🕀 🛄 Classe	Import registry				Key			Changed	
🕀 🛄 Micro:	Export registry				Key			Changed	
HKEY_LOCAL_	New key				System hive				
SOFTWAR	New value				Key			Changed	
🗄 🔛 Classe	New Value				Key			Changed	
🕀 📗 Client	Properties	F2			Key			Changed	
Micro:	Move to				Key			Changed	
🕀 🖿 Mozill	Exclude	Del			Key			Added	
🕀 🛄 Policie	Add to exclusion filter	•			Key			Changed	
🕀 🔚 Regist	Delete	Shift+Del			Key			Changed	
E WOW					Key			Changed	
🖃 🔛 System	APPV virtualization leve	el 🔸	·		Key			Changed	
E Current	tControlSet				Key			Changed	
HKEY_USERS					System hive				
DEFAULT					Key			Changed	
	re -				Key			Changed	
Add 🔺	Exclude								



• Select **Delete** from the context menu of the excluded item, which you want to delete from the project.

Edit package - PKG-19	😂 Edit package - PKG-190430-144511.mgp — 🗆 🗙							
≡ MENU Packa	age Files Shortcut	ts\Apps	Registry	System resources				
Registry						Inc	luded: 108 values 💙 Collapse all	
Name					Туре	Value	State	
HKEY_CLASSES_ROOT System hive								
System hive								
🖃 🛄 Software					Key		Changed	
🕀 🛄 Glasser	Import registry				Key		Changed	
Micros	Export registry				Key		Changed	
HKEY_LOCAL_	New kev				System hive			
🖃 🚞 SOFTWARI	New value				Key		Changed	
🕀 🔛 Classe:	Them Funde				Key		Changed	
🕀 🔛 Clients	Properties	F2			Key		Changed	
🕀 🔚 Micros	Move to				Кеу		Changed	
🕀 🔛 Mozilla	Include	Ins			Key		Added	
🗈 🛄 Policie	Add to exclusion filter	•			Key		Changed	
🕀 🔚 Registe	Delete	Shift+Del			Кеу		Changed	
					Кеу		Changed	
System	APPV virtualization leve	▶	·		Key		Changed	
Current	tControlSet				Key		Changed	
HKEY_USERS					System hive			
					Key		Changed	
E Softwa	re				Key		Changed	
	ter inter in							
Add 🔺	Delete							



3.8.4 Services

Choose a scenario that better suits your needs:

- Exclude Service, described in section 3.8.4.1 Exclude the unnecessary services from the project.
- Include Excluded Service, described in section 3.8.4.2 Include the necessary services, previously excluded from the project.
- Edit Service, described in section 3.8.4.3 Edit the service details such as display name, description, start type, parameters, event and error control.

3.8.4.1 Exclude Service

Exclude the unnecessary services from the project.

• Go to the System resources -> Services tab.

Edit package	e - PKG-190430-	144511.mgp	2			- D X
	Package	Files	Shortcuts\Apps	Registry	System resources	
				Services	(1) Printers (0)	Environment variables (1)
Services Y + Mozilia	Maintenance			Services	(1) Printers (0)	Environment variables (1) Displayed name Mozilla Maintenance Service Description The Mozilla Maintenance Service ensures that you have the latest and most secure version of N Executable *C.\Program Files (x86)\Mozilla Maintenance Service\maintenanceservice.exe* Start parameters LocalSystem Dependencies: LocalSystem Dependencies: Start type Manual V Event Auto V Error control Normal V





To exclude, untick the checkbox, located before the service name.
 Edit package - PKG-190430-144511.mgp

≡ menu	Package	Files	Shortcuts\Apps	Registry	System resources	
				Services	(1) Printers (0)	Environment variables (1)
Services	aMaintenance					Displayed name Mozilla Maintenance Service Description The Mozilla Maintenance Service ensures that you have the latest and most secure version of M Executable *C:\Program Files (x86)\Mozilla Maintenance Service\maintenanceservice.exe* Start parameters LocalSystem Dependencies: Start type * Manual Event Auto Error control Normal V

3.8.4.2 Include Excluded Service

Include the necessary services, previously excluded from the project.

• Go to the System resources -> Services tab.

MENU	Package	Files	Shortcuts\Apps	Registry	System resources			
				Services	(1) Printers (0)		Environment variables (1)	
ervices							Displayed name	
+ Mozilla	Maintenance						Mozilla Maintenance Service	
							Description	
							The Mozilla Maintenance Service ensures that you have the latest and most secure version	n
							Executable	
							"C:\Program Files (x86)\Mozilla Maintenance Service\maintenanceservice.exe"	
							Start parameters	
							LocalSystem	
							Dependencies:	
							Start type	
						:	Manual	
							Event	
							Auto	
							Error control	
							Normal	



 \Box \times

To include, tick the checkbox, located before the service name.
 Edit package - PKG-190430-144511.mgp

- can package						
≡ MENU	Package	Files	Shortcuts\Apps	Registry	System resources	
Services	Package	Files	Shortcuts\Apps	Registry Services	System resources (1) Printers (0)	Environment variables (1) Displayed name Mozilla Maintenance Service Description The Mozilla Maintenance Service ensures that you have the latest and most secure version of N Executable "C'\Prooram Files (x86)\Mozilla Maintenance Service\maintenanceservice exe"
						Start parameters Dependencies: Start type
						Event Auto Fror control Normal

3.8.4.3 Edit Service

Edit the service details such as display name, description, start type, parameters, event and error control.

• Go to the System resources -> Services tab.

MENU	Package	Files	Shortcuts\Apps	Registry	System resources		
				Services	(1) Printers (0))	Environment variables (1)
services							Displayed name
✓ + Mozilla	Maintenance						
							Description The Marille Maintenance Service answer that you have the latest and most service version
							The Mozilia Maintenance service ensures that you have the latest and most secure version
							Executable
							C:\Program Files (xob)\Mozilia Maintenance Service\maintenanceservice.exe
							Start parameters
							Localsystem
							Dependencies:
							Start type
						:	Manual
							Event
							Auto
							Error control
							Normal



• Update the necessary values such as service display name, description, path to executable, start parameters, start type, error control and the like.

Edit package - PKG-19043	0-144511.mg	р			- 🗆 X
≡ MENU Package	Files	Shortcuts\Apps	Registry	System resources	
			Services	(1) Printers (0)	Environment variables (1)
Services + MozillaMaintenance					Displayed name Mozilla Maintenance Service
					Description The Mozilla Maintenance Service ensures that you have the latest and most secure version of N Executable "C:\Program Files (x86)\Mozilla Maintenance Service\maintenanceservice.exe" Start parameters LocalSystem Dependencies: Start type
					Manual Event Auto Error control Normal



3.8.5 Environment Variables

Choose a scenario that better suits your needs:

- Add Environment Variable, described in section 3.8.5.1 Add a new environment variable to the project.
- Remove Environment Variable, described in section 3.8.5.2 Remove an environment variable from the project.

3.8.5.1 Add Environment Variable

Add a new environment variable to the project.

• Go to the System resources -> Environment variables tab.

۲	Edit	package	- PKG-190430)-144511.mg	p							 -	×
Ξ	E ME	NU	Package	Files	Shortcuts\Apps	Registry	System resource	ces					
			,				(4)	(0)		· · · · · · · · · · · · · · · · · · ·			
						Services	s (1) Printer	rs (0)	Environ	ment variables (2)			
		N	lame		Valu	e		Тур	e				
	+	Var_1	Va	ilue 1				Machine	~				
	+	Var_2	Va	lue 2				User	~				
	*												





Select Add from the context menu.

😂 Edit package - PKG-190430-144511.mgp	-	
≡ MENU Package Files Shortcuts\Apps Registry System resources		
Services (1) Printers (0) Environment variables (2)		
A Name Value Type		
T Va_1 Value 1 Machine V		
Value 2 Value 2 Add Delete		

Enter a variable name, value and choose its type: per-machine or per-user.
 NOTE To append the entered value to the end of an existing variable, put the "[~];" string before your value (e.g. [~];Your value). To prefix the entered value to the front of an existing variable, put the ":[_]" string after your value (e.g. [~];Your value). To prefix the entered value to the front of an existing variable, put the ":[_]" string after your value (e.g. [~];" string after your value (e.g. [~]). To replace a value of the variable.

variable, put the ";[~]" string after your value (e.g. Your value;[~]). To replace a value of the existing variable, do not use [~]. Edit package - PKG-190430-144511.mgp × **≡** MENU Package Files Shortcuts\Apps Registry System resources Services (1) Printers (0) Environment variables (2) + Var_1 + Var_2 MyVar Name Туре Value 1 Machine User Value 2 🖌 🕂 MyVar Machine My Value ^ Machine User



3.8.5.2 Remove Environment Variable

Remove an environment variable from the project.

• <u>Go to the System resources -> Environment variables tab.</u>

t package -	- PKG-190430-1445	i11.mgp								-	
enu	Package I	Files Sho	prtcuts\Apps	Registry	System resou	rces					
				Services	(1) Printe	ers (0)	Environme	nt variables (2)			
Na	ame		Value	a		Tyr	1e				
Var 1	Value 1					Machine	~				
Var 2	Value 2					User	~				
-											

• Select Delete from the context menu of a variable, which you want to remove.

E MENU Registry System resources Services (1) Printers (0) Environment variables (2)	Edit package - PKG-	190430-144511.mgp			_	×
Services (1) Printers (2)	≡ MENU Pac	kage Files Shortcuts\Apps	Registry System resources			
Name Value Type + Value 1 Machine • + Value 2 Uer •			Services (1) Printers (0)	Environment variables (2)		
Name Value Type + Var_1 Value 1 Machine v + vr_2 Value 2 v				<u></u>		
Image: ward ward ward ward ward ward ward ward	Name	Valu	2	Туре		
+ Var_2 Value 2 * Add Delete	+ Var_1	Value 1	Machin	· · ·		
Add Delete	+ Var_2	Value 2	User	×		
Delete		Add				
		Delete				





3.8.6 MSI Settings

Choose a scenario that better suits your needs:

- Set Application Details, described in section 3.8.6.2 Control how the package will be displayed in the App list (Add & Remove Programs).
- Set INSTALLDIR, described in section 3.8.6.3 Set a folder of the project as the INSTALLDIR.
- Shortcuts, described in section 3.8.6.4 Exclude/include, import new ones and edit existing shortcuts.
- Edit Shortcut
- Edit the shortcut detail such as name, destination folder, shortcut type, icon, etc.
- Go to the Shortcuts\Apps -> MSI tab.

© Edit package - PKG-190430-144511.mgp			- 🗆 X
≡ MENU Package Files Shortcuts\Apps Registry System resources			
MSI UWP	APPV		
MSI shortcuts		Included: 1 shortcut	Collapse all
Name	Туре	Target	State
	Folder		Changed
Program Files (x86)	Folder		Changed
ProgramData	Folder		Changed
Microsoft	Folder		Changed
🕀 🛅 Search	Folder		Changed
Windows	Folder		Changed
Start Menu	Folder		Changed
Programs	Folder		Changed
Firefox.Ink	Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
w#p	Folder		Changed
Windows-Defender	Folder		Changed
	Folder		Changed
	Folder		Changed
	Folder		Changed
Desktop	Folder		Changed
	Shortcut	C:\Program Hiles (x86)\Mozilia Hirefox\firefox,exe	Added
	Folder		Changed
Add • Exclude			





Select Properties from the context menu of a shortcut, details of which you want to edit.

 Edit package - PKG-190430-144511.mgp –

≡ menu	Package	Files	Shortcuts\Apps Re	egistry	System resource	s			
					MSI	UWP	APPV		
MSLcho	steute								
10151 5110	ficuis							Included: I snortcut	Collapse all
Name							Туре	Target	State
🖃 🔤 C:							Folder		Changed
•	Program Files (x86)					Folder		Changed
	ProgramData						Folder		Changed
8	Microsoft						Folder		Changed
	Search						Folder		Ghanged
	Windows						Folder		Changed
	Start N	lenu					Folder		Changed
	E Pro	ograms					Folder		Changed
	<u>e</u>	Firefox.ink	Import shortcuts				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wrp		New shortcut				Folder		Changed
	Windows-L	Petender	New subfolder				Folder		Changed
	Users		iter subiolael		-		Folder		Changed
	pace		Properties	F2			Folder		Changed
			Move to folder				Folder		Changed
	Eirefox	lok	Exclude	Del			Shortsut	C) Bragging Eller (v96)) Maxilla Eirafey) firefey eye	Added
	Windows	ALC: NO POINT	Add to exclusion filte	2r	•		Eolder	GAPTOGRAM FILES (200) AVIOLINA FILETOX (THETOXIEXE	Changed
			Delete	Shift+Del	1		TOIGET		changed
Add 🔺	Exclud	e							

• Update the necessary values such as icon, shortcut name, installation folder, type, target, arguments and so on. Afterwards, click **Save**.

			\sim
Shortcut	_		^
Firefox.lnk			
Target (installation) folder			
C:\ProgramData\Microsoft\Windows\Start Menu\Programs		Browse	
Details Shortcut type Advertised shortcut Regular (non-advertised) shortcut			
Shortcut target	_		
C:\Program Files (x86)\Mozilla Firefox\firefox.exe		Browse	
Arguments			
Start in (WkDir)			
C:\Program Files (x86)\Mozilla Firefox		Browse	
Run			
Normal window			~
Save Cancel			



3.8.6.1.1 Delete Shortcut

Delete an MSI shortcut from the project.

• Go to the Shortcuts\Apps -> MSI tab.

Edit package	- PKG-190430-144511	.mgp						-	
MENU	Package File	s Shortcuts\Apps	Registry	System resourc	es				
				MSI	UWP	APPV			
/ISI shor	rtcuts						Included: 1 shortcut	t V Co	llapse a
Name						Туре	Target	State	
- C:						Folder		Changed	
🕀 📄 Pr	rogram Files (x86)					Folder		Changed	
🖃 📃 Pr	rogramData					Folder		Changed	
8	Microsoft					Folder		Changed	
Œ	Search					Folder		Changed	
E	Windows					Folder		Changed	
	Start Menu					Folder		Changed	
	Programs					Folder		Changed	
	🌖 Firefo	x.ink				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added	
	wfp					Folder		Changed	
Đ	Windows Defender	BF				Folder		Changed	
🖃 🛄 U:	sers					Folder		Changed	
÷	pace					Folder		Changed	
Ξ.	Public					Folder		Changed	
E	Desktop					Folder		Changed	
	🍯 Firefox.Ink					Shortcut	G:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added	
🕀 🛄 W	lindows					Folder		Changed	

• As the **Delete** is available only for the excluded resources, first exclude an item, which you want to delete, selecting **Exclude** from the context menu. Note that the excluded items are highlighted in yellow and crossed out.

■ MENU Package Files Shortcuts/Apps Registry System resources MSI UWP APPV MSI shortcuts Included: 1 shortcut Included:	Edit package - PKG-190430-144511.mgp					- 🗆	×
MSI UWP APV Statutututututututututututututututututut	≡ MENU Package Files	Shortcuts\Apps Registry Sy	ystem resources				
Name Type Target State C: Folder Changed Program Files (x66) Folder Changed Program Data Folder Changed Microsoft Folder Changed Mindows-Defender New shortcut Shortcut Changed New subfolder Folder Changed Changed Windows-Defender New subfolder Folder Changed Wolic Folder Changed Changed More to folder <	MSI shortcuts		MSI UWP	APPV	Included: 1 shortcut	Collapse	all
Name Ope Name Ope Name C Folder Folder Changed Program Files (x66) Folder Changed Program Data Folder Folder Microsoft Folder Changed Windows Folder Folder Start Menu Folder Changed Programs Folder Changed Programs Folder Changed Windows Defender Changed Programs Folder Changed Programs Folder Changed Windows Start Menu Folder Changed Programs Folder Changed Changed Windows New shortcut Folder Changed Windows New shortcut Folder Changed Windows Properties F2 Folder Changed Work to folder Folder Changed Changed Windows Del Shortcut Changed Windows Del Shortcut Changed Poperties F2 Folder Changed Move to folder Del Folder Changed Add to exclusion filter	Name			Tuno	Tarrat	State	
Image Program Files (x86) Charged Charged Image Program Files (x86) Folder Charged Image Folder Charged Charged Image Microsoft Folder Charged Image Folder Folder Charged Image Folder Charged Charged Image Import shortcuts Shortcut Charged Charged Image Import shortcuts Folder Charged Charged Image Import shortcuts Folder Charged Charged Image Properties F2 Folder Charged Charged Image	R C			Type	laiget	State	
Image: Program State Folder Charged Image: Program State Folder	C:			Folder		Changed	
Integration Dota Changed Integration Changed Integration Changed Integration Folder Integration Changed Integration Folder Integration Changed Integration Folder Integration Changed Integration Folder Integration Folder Integration Shortcut Integration Shortcut Integration Folder Integration Shortcut Integration Changed Integration Shortcut	ProgramData			Folder		Changed	
Image: Search Folder Changed Image: Search Folder Changed Image: Start Menu Folder Changed Image: Fredox.ink Folder Changed Image: Fredox.ink Import shortcuts Folder Changed Image: Fredox.ink Import shortcuts Folder Changed Image: Fredox.ink Import shortcuts Folder Changed Image: Fredox.ink New shortcut Folder Changed Image: Fredox.ink New subfolder Folder Changed Image: Fredox.ink Nove to folder Folder Changed Image: Fredox.ink Del Add to exclusion filter Folder Changed Image: Fredox.ink Shift+Del Shortcut CAProgram Files (x86)/Mozilla Firefox/fi	Microsoft			Folder		Changed	
Windows Folder Changed Image: Start Menu Folder Changed Image: Programs Folder Changed Image: Firefox.ink Import shortcuts Folder Changed Image: Firefox.ink Import shortcuts Shortcut Colorarm Files (x86)/Mozilla Firefox/firefox.exe Added Image: Firefox.ink Import shortcuts Folder Changed Image: Firefox.ink New shortcut Folder Changed Image: Firefox.ink New shortcut Folder Changed Image: Firefox.ink New shortcut Folder Changed Image: Firefox.ink New subfolder Folder Changed Image: Firefox.ink Nove to folder Folder Changed Image: Firefox.ink Del Add to exclusion filter Folder Changed Image: Firefox.ink Shortcut Colorarm Files (x86)/Mozilla Firefox/firefox.exe Added Image: Firefox.ink Del Shortcut Colorarm Files (x86)/Mozilla Firefox/firefox.exe Added Image: Firefox.ink Del Shortcut Colorarm Files (x86)/Mozilla Firefox/firefox.exe Added Image: Firefox.ink Shortcut Colorarm Files (x86)/Mozilla Firefox/firefox.exe Added	Search			Folder		Changed	
Image: Start Menu Folder Changed Image: Programs Folder Shortcut Changed Image: Profexink Import shortcuts Shortcut Changed Image: Profexink New shortcut Folder Folder Changed Image: Profexink New shortcut Folder Folder Changed Image: Profexink New subfolder Folder Folder Changed Image: Profexink New subfolder Folder Folder Changed Image: Profexink New subfolder Folder Folder Changed Image: Profexink Nove to folder Folder Folder Changed Image: Profexink Add to exclusion filter Folder Changed Changed Image: Profexink Delet Shift+Del Folder Changed	Windows			Folder		Changed	
Import shortcuts Folder CAnged Windows-Defender Import shortcuts Folder Changed Windows-Defender New shortcut Folder Folder Changed Windows-Defender New shortcut Folder Folder Changed Public New subfolder Folder Folder Changed Public Properties F2 Folder Folder Changed Exclude Del Add to exclusion filter Folder Changed Changed Delete Shift+Del Folder Changed Changed	🖃 📃 Start Menu			Folder		Changed	
Import shortcuts Shortcut CAProgram Files (x86)/Mozilla Firefox/firefox.exe Added Windows: Defender New shortcuts Folder Changed Users New subfolder Folder Changed Poperties F2 Folder Changed Move to folder Pole Changed Changed Move to folder Folder Changed Changed Move to folder Folder Folder Changed Exclude Del Added Changed Add to exclusion filter Folder Changed Changed Delete Shift+Del Folder Changed	E Programs			Folder		Changed	
Import shortcuts Folder Changed Import shortcuts New shortcut Folder Changed Import shortcuts New shortcut Folder Changed Import shortcuts New subfolder Folder Changed Import shortcuts Properties F2 Folder Folder Changed Import shortcuts Properties F2 Folder Changed Import shortcuts Deleto Deleto Folder Changed Import shortcuts Deleto Shift+Del Folder Changed	Firefox.lnk			Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added	
Windows-Defender New shortcut Folder Folder Changed Users New subfolder Folder Folder Changed pace Public Move to folder Exclude Del Add to exclusion filter Delete Shift+Del Folder Changed Chan	🔄 wfp	Import shortcuts		Folder		Changed	
Image: Section of the section of t	Windows-Defender	New shortcut		Folder		Changed	
Image: Barbon and State and S	Users	New subfolder		Folder		Changed	
Image: Public Move to folder Folder Changed Image: Public Postop Exclude Del Folder Changed Image: Public Postop Add to exclusion filter Folder Changed Added Image: Public Postop Add to exclusion filter Folder Changed Added Image: Public Postop Delete Shift+Del Folder Changed		Properties F2		Folder		Changed	
Image: Change Exclude Del Image: Change Finder Finder Changed Image: Change Add to exclusion filter Finder Shortcut CAProgram Files (MSG) Mozilla Firefox/firefox.exe Added Image: Change Delete Shift+Del Finder Folder Changed	Public	Move to folder		Folder		Changed	
Shortcut CAProgram.Files_(\s66)\Mozilla_Firefox\firefox.exe Added Image: Comparison of the sector of the	Desktop	Exclude Del		Folder		Changed	
Image: Changed Folder Changed	Firefox.ink	Add to exclusion filter		Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added	
	Windows	Delete Shift+Del		Folder		Changed	



 Select Delete from the context menu of the excluded item, which you want to delete from the project.

Edit package - PKG-190430-144511.mgp						- 0
≡ MENU Package Files	Shortcuts\Apps Reg	istry Sys	tem resources			
		_	MSI U	WP APPV		
MSI shortcuts					Included: 0 shortcuts	Collapse all
Name				Туре	Target	State
= _ C:				Folder		Changed
				Folder		Changed
🖃 📄 ProgramData				Folder		Changed
Microsoft				Folder		Changed
🕒 🛅 Search				Folder		Changed
Windows				Folder		Changed
🖃 📄 Start Menu				Folder		Changed
Programs				Folder		Changed
Firefox.ink			1	Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
wfp	Import shortcuts			Folder		Changed
Windows-Defender	New shortcut			Folder		Changed
⊟ Users	New subfolder			Folder		Changed
	Properties	F2		Folder		Changed
Public	Move to folder	12		Folder		Changed
Desktop	Include	Inc		Folder		Changed
🜖 Firefox.lnk	include	ins .		Shortcut	Ci\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
Windows	Add to exclusion filter	•		Folder		Changed
	Delete	Shift+Del				
Add 🔺 Delete						

• If the shortcut was created during the capturing and its source LNK file was copied to the project folder, you will get the confirmation dialog. Click **Delete** to confirm the shortcut deletion form the project and LNK file from the project folder. NOTE Resources, located outside the project folder, will not be deleted from your file system.

🕼 MSI Ger	nerator	×
Q	Do you want to permanently delete this file?	
	This operation will delete the file from the project folder on the file system and save the opened project.	
	Delete <u>C</u> ancel	



- File/Folder Permissions, described in section 3.8.6.4.6 Control which of files and folders permissions will be included into the package.
- Registry Permissions, described in section 3.8.6.6 Control which of registry permissions will be included into the package.
- Select Compression Type, described in section 3.8.6.7 Select the compression type for the package files.
- Use Advertising Tables, described in section 3.8.6.8 Select which of MSI advertizing tables will be used for storing the capturing registry.
- Add Active Setup, described in section 3.8.6.9 Intergrate the Active Setup to the MSI package automatically, if it contains per-user data.
- Set Summary Information, described in section 3.8.6.10 Set the default Summary Information values, which will be saved to each created MSI package.



3.8.6.2 Set Application Details

Control how the package will be displayed in the App list (Add & Remove Programs).

• Go to the Package -> MSI tab.

Edit package - PK	G-190430-1	44511.mg	gp												-		>
	ackage	Files	Shortcut	s\Apps	Registry	System resources	;										
					MSI	MST	UW	Ρ	APP	V	THINAPP						
Application	Details	5						MSI I	Packa	age C	ptions						
Application name								MSI setti	ings prof	ile							
Firefox								default							~	Ec	lit
Publisher								Project f	older								
Mozilla								C:\Use	ers\pace	e\Docur	ments\MSI Gen	erator\Packa	ges\PKG-1	Browse	2	Go	to
Version			F	Product lang	uage			MSI Cod	ePage								
63.0.3				1033				0	Neutr	al							
Product code								INSTALL	DIR								
{0A6CB50B-C191	-4E46-B20	06-F07A7	76BAD957}			New GUID											
Upgrade code								BL		G	Detected MSI i	nstallations				Oper	n log
{99F27E0A-B935	-4175-B70	D-966E4	4D302030}			New GUID	1	Type	E	apsed	Step						Ť
☑ Generate new o Summary In	codes whe format	n build f	MSI														
Title				Subject													
Installation Datab	base																
Author				(eywords													
				Install,MS	l												
Comments																	
This installer data	abase cont	tains the	logic and dat	a required	l to install <pr< td=""><td>oduct name>.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pr<>	oduct name>.											
Platform				anguages													
Autodetect			~	0				Elapsed 00:00	time				🖸 Op	en MSI	¢	Build	MSI

• Set application details such as application name (product name), version, publisher, language, package and upgrade codes.

Edit package - PKG-190430-144511.mgp							-	
	tcuts\Apps Registry	System resources						
	MSI	MST L	JWP	APPV	THINAPP			
Application Details			MSI Pa	ckage C	ptions			
Application name			MSI settings	profile				
Firefox			default				~	Edit
Publisher			Project folde	er.				
Mozilla			C:\Users\	pace\Docur	ments\MSI Generator\Packages\P	KG-1 Browse		Go to
Version	Product language		MSI CodePa	ge				
63.0.3	1033		0 N	eutral				~
Product code			INSTALLDIR					
{0A6CB50B-C191-4E46-B206-F07A76BAD957	7}	New GUID						~
Upgrade code			BUILI) LOG	Detected MSI installations			Open log
{99F27E0A-B935-4175-B70D-966E4D302030	1}	New GUID	Туре	Elapsed	Step			
Generate new codes when build MSI								
Summary Information			-					
Title	Subject							
Installation Database								
Author	Keywords							
	Install,MSI							
Comments								
This installer database contains the logic and	I data required to install <pro< td=""><td>duct name>.</td><td></td><td></td><td></td><td></td><td></td><td></td></pro<>	duct name>.						
Platform	Languages		Element of					
Autodetect	• 0		00:00		6	김 Open MSI	€ 1	Build MSI



3.8.6.3 Set INSTALLDIR

Set a folder of the project as the INSTALLDIR. This means that an identifier of the selected folder will be set to the 'INSTALLDIR' value. Usually, the INSTALLDIR property represents the main product installation folder, and you can re-define this path via the command line or a Custom Action.

•	Go	to	the	Package	->	MSI	tab.
---	----	----	-----	---------	----	-----	------

Edit package - PKG-190430-144511.mgp										-		×
≡ MENU Package Files Shortc	uts\Apps Registry	System resources										
	MSI	MST	UWP	AP	PV	THI	NAPP					
Application Details			MS	SI Pack	cage C	Optio	ns					
Application name			MSI s	ettings pr	ofile							
Firefox			defa	ault						~	Edit	
Publisher			Proje	ct folder								
Mozilla			C:\I	Users\pa	ce\Docu	ments\/	ISI Generator\Pa	kages\PKG-1	Browse		Go to.	
Version	Product language		MSLC	CodePage								
63.0.3	1033		0	Neu	itral							~
Product code			INST/	ALLDIR								
{0A6CB50B-C191-4E46-B206-F07A76BAD957}		New GUID										~
Upgrade code				BUILD L	OG	Detect	ed MSI installation:				Open lo	bg
{99F27E0A-B935-4175-B70D-966E4D302030}		New GUID	Туре	e	Elapsed		Step					
Generate new codes when build MSI												
Summary Information												
Title	Subject											
Installation Database												
Author	Keywords											
	Install,MSI											
Comments												
This installer database contains the logic and c	lata required to install <prod< td=""><td>luct name>.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></prod<>	luct name>.										
Platform	Languages											
Autodetect 🗸	0		Elaps 00:00	ed time)				🖸 🖸 Ope	en MSI	ψ	Build M	SI

• Select the INSTALLDIR path from the list.

Edit package - PKG-190430-144511.mgp			- 0	×
≡ MENU Package Files Short	cuts\Apps Registry	System resources		
	MSI	MST	JWP APPV THINAPP	
Application Details			MSI Package Options	
Application name			MSI settings profile	
Firefox			default 🗸 Ed	it
Publisher			Project folder	
Mozilla			C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Browse Go t	o
Version	Product language		MSI CodePage	
63.0.3	1033		0 Neutral	~
Product code			INSTALLDIR	
{0A6CB50B-C191-4E46-B206-F07A76BAD957	}	New GUID	C:\Program Files (x86)\Mozilla Firefox	^
Upgrade code				
{99F27E0A-B935-4175-B70D-966E4D302030]	}	New GUID	C:\ProgramData\Microsoft\Windows\wfp	
Generate new codes when build MSI			C:\Program Files (x86)\Mozilla Firefox	
Summer unformation			C:\Program Files (x86)\Mozilla Firefox\uninst "C:\Program Files (x86)\Mozilla Firefox	
Summary information			C:\Program Files (x86)\Mozilla Firefox\browser	
Title	Subject		C:\Program Files (x86)\Mozilla Firefox\defaults	
Installation Database			C:\Program Files (x86)\Mozilla Firefox\fonts	
Author	Keywords		C:\Program Files (x86)\Mozilla Firefox\gmp-clearkey	
	Install,MSI		C:\Program Files (x86)\Mozilla Maintenance Service	
Comments				
This installer database contains the logic and	data required to install <pre>pre</pre>	oduct name>.		
Platform	Languages		Encode time	
Autodetect	0		00:00	MSI

3.8.6.4 Shortcuts

Choose a scenario that better suits your needs:

- Exclude Shortcut, described in section 3.8.6.4.1 Exclude the unnecessary shortcuts from the project
- Include Excluded Shortcut, described in section 3.8.6.4.2 Include the necessary shortcuts, previously excluded from the project.
- Add Shortcut, described in section 3.8.6.4.3 Add new MSI shortcut to the project.
- Import Shortcut, described in section 3.8.6.4.4 Import shortcuts from the file system to the project.
- Move Shotcut, described in section 3.8.6.4.5 Move a shortcut from one folder to another.
- Edit Shortcut, described in section 3.8.6.4.6 Edit the shortcut detail such as name, destination folder, shortcut type, icon, etc.
- Delete Shortcut, described in section 3.8.6.4.7 Delete an MSI shortcut from the project.

3.8.6.4.1 Exclude Shortcut

Exclude the unnecessary shortcuts from the project.

• Go to the Shortcuts\Apps -> MSI tab.

Europierage The Isonso interningp			>
MENU Package Files Shortcuts\Apps Registry System resources			
MSI UWP	APPV		
ASI shortcuts		Included: 1 shortcut	Collapse all
Name	Туре	Target	State
B C	Folder		Changed
Program Files (x86)	Folder		Changed
🖃 🔤 ProgramData	Folder		Changed
Microsoft	Folder		Changed
🗉 🛅 Search	Folder		Changed
Windows	Folder		Changed
🖃 🔤 Start Menu	Folder		Changed
Programs	Folder		Changed
👶 Firefox.ink	Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
🗀 wfp	Folder		Changed
Windows Defender	Folder		Changed
Users	Folder		Changed
	Folder		Changed
Public	Folder		Changed
Desktop	Folder		Changed
🚺 Firefox.Ink	Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
Windows Windows	Folder		Changed



 Select Exclude from the context menu of an item, which you want to exclude from the project. Note that the excluded items are highlighted in yellow and crossed out.

≡ MENU Package Files	Shortcuts\Apps Registry	System resources			
MSI shortcuts		MSI U	WP APPV	Included: 1 shortcut	Collapse all
Nama			Turne	Taraat	State
			Type	laiget	Channel
Program Files (v86)			Folder		Changed
ProgramData			Folder		Changed
Microsoft			Folder		Changed
Search			Folder		Changed
Windows			Folder		Changed
Start Menu			Folder		Changed
Programs			Folder		Changed
💧 Firefox.Ink			Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
C wfp	Import shortcuts		Folder		Changed
Windows Defender	New shortcut		Folder		Changed
Users	New subfolder		Folder		Changed
∎ pace	Properties F2		Folder		Changed
Public	Move to folder		Folder		Changed
Desktop	Exclude Del		Folder		Changed
Firefox.ink	Add to exclusion filter		Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
Windows	Doloto Shift	- Dal	Folder		Changed
Add 🔺 Exclude					

3.8.6.4.2 Include Excluded Shortcut

Include the necessary shortcuts, previously excluded from the project.

• Go to the Shortcuts\Apps -> MSI tab.

1SI shoi	rtcuts					Included: 1 shorts	Collapse
lame					Type	Target	State
- C:					Folder		Changed
• D	rogram Files (x86)				Folder		Changed
e P	rogramData				Folder		Changed
8	Microsoft				Folder		Changed
6	E Search				Folder		Changed
6	- Windows				Folder		Changed
	🖃 📃 Start Me	nu			Folder		Changed
	E Prog	rams			Folder		Changed
	6	irefox.lnk			Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp				Folder		Changed
6	Windows De	fender			Folder		Changed
🗆 🗋 U	lsers				Folder		Changed
•	pace				Folder		Changed
	Public				Folder		Changed
6	Desktop				Folder		Changed
	🕹 Firefox.li	ik			Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
• V	Vindows				Folder		Changed



Select Include from the context menu of an item, which you want to include back to the project. Note that the excluded items are highlighted in yellow and crossed out.
 Edit package - PKG-190430-144511.mgp

MENU Package	Files Shortcuts\Apps	Registry	System resource	≥s			
			MSI	UWP	APPV		
SI shortcuts						Included: 1 shortcut	Collapse a
ame					Туре	Target	State
C:					Folder		Changed
Program Files (x86)					Folder		Changed
ProgramData					Folder		Changed
Microsoft					Folder		Changed
Search					Folder		Changed
Windows					Folder		Changed
🖃 📄 Start Me	nu				Folder		Changed
Programs							Changed
ē	irefox.ink				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
wfp					Folder		Changed
Windows De	fender				Folder		Changed
Users					Folder		Changed
. ■ pace					Folder		Changed
Public					Folder		Changed
Desktop					Folder		Changed
	Import shortcuts				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
Windows	New shortcut				Folder		Changed
	New subfolder						
	Properties F	2					
	Move to folder						
	Include Ir	s					
	Add to exclusion filter	•					
Add . Delete	Delete S	hift+Del					

_

3.8.6.4.3 Add Shortcut

Add new MSI shortcut to the project.

• Go to the Shortcuts\Apps -> MSI tab.

сип раскаде	- PKG-190430-144511.mg	р						- 🗆 ×
MENU	Package Files	Shortcuts\Apps	Registry	System resource	25			
				MSI	UWP	APPV		
ISI shor	tcuts						Included: 1 shortcut	Collapse all
Name						Туре	Target	State
🖃 🔤 C:						Folder		Changed
🕀 🛄 Pro	ogram Files (x86)					Folder		Changed
🖃 📄 Pro	ogramData					Folder		Changed
	Microsoft					Folder		Changed
÷	Search					Folder		Changed
	Windows					Folder		Changed
	Start Menu					Folder		Changed
	Programs					Folder		Changed
	🍯 Firefox.Ink	ŧ.				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp					Folder		Changed
÷	Windows Defender					Folder		Changed
🖃 🛄 Us	iers					Folder		Changed
•	pace					Folder		Changed
Ξ	Public					Folder		Changed
8	Desktop					Folder		Changed
	🍯 Firefox.ink					Shortcut	Ci\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
🛨 📄 Wi	indows					Folder		Changed

Select New shortcut from the context menu of a folder, to which you want to add a shortcut.
 NOTE To add the missing system folders (e.g. Desktop, Start Menu\Programs) or subfolders,

select Add -> System folders or Add -> Subfolder respectively from the toolbox menu. Also, ensure that the Hide folders without shortucts filter is not applied

Edit package	e - PKG-190430-1	44511.mg	q						— C	- X
≡ menu	Package	Files	Shortcuts\Apps	Registry	System resources	5				
					MSI	UWP	APPV			
MSI sho	rtcuts							Included: 1 shortcut	Collap	pse all
Name							Туре	Target	State	
🖃 🔤 C:							Folder		Changed	
🗉 🗋 P	Program Files (x86)						Folder		Changed	
🖃 📄 P	ProgramData						Folder		Changed	
	Microsoft						Folder		Changed	
E	E Search						Folder		Changed	
E	Windows						Folder		Changed	
	🖃 📄 Start M	enu					Folder		Changed	
	🖃 📄 Pro	grams					Folder		Changed	
	6	Firefox.	Import shortcuts				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added	
	wfp		New shortcut				Folder		Changed	
6	Windows D	efender	New subfolder				Folder		Changed	
= 🗆 u	Jsers		Properties	F2			Folder		Changed	
•	pace		Move to folder				Folder		Changed	
	Public		Exclude	Dol			Folder		Changed	
6	Desktop		Add to see the Second	Dei			Folder		Changed	
	🍯 Firefox.	Ink	Add to exclusion filter	,			Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added	
• 🗆 V	Vindows		Delete	Shift+Del			Folder		Changed	
Add 🔺	Exclude	2								

• Specify a shortcut Icon, Name, Shortcut target and other details. Afterwards, click Save.

Properties	_		×
no icon 🗸			
Shortcut			
Nama			
			•
			U
Target (installation) folder			
C:\ProgramData\Microsoft\Windows\Start Menu\Programs		Browse	
Detaile			
Details			
Shortcut type			
Advertised shortcut			
O Regular (non-advertised) shortcut			
Shortcut target			
		Browse	
Arguments			
Arguments			
Start in (WkDir)			
		Browse	
		biowse	
Run			
Normal window			~
Save Cancel			
Lancer Cancer			



3.8.6.4.4 Import Shortcut

Import shortcuts from the file system to the project.

• Go to the Shortcuts\Apps -> MSI tab.

		Included: 1 shortcut	Collapse
me	Туре	Target	State
) C:	Folder		Changed
Program Files (x86)	Folder		Changed
ProgramData	Folder		Changed
Microsoft	Folder		Changed
Search	Folder		Changed
Windows	Folder		Changed
Start Menu	Folder		Changed
Programs	Folder		Changed
Firefox.Ink	Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
C Window Defender	Folder		Changed
	Folder		Changed
Desktop	Folder	CAReament Files (ARENALSHID) Filesfeed Filesfeed Files	Changed
	Snortcut	Citerogram Hies (xoo)twozilia Hiretoxtilietoxexe	Added

• Select **Import shortcuts** from the context menu of a folder, to which you want to import shortcuts from the file system.

NOTE To add the missing system folders (e.g. Desktop, Start Menu\Programs) or subfolders, select Add -> System folders or Add -> Subfolder respectively from the toolbox menu. Also, ensure that the Hide folders without shortucts filter is not applied

Edit package - PKG	G-190430-144511.mg	IP						- 🗆 ×
≡ MENU Pa	ickage Files	Shortcuts\Apps	Registry	System resources	;			
				MSI	UWP	APPV		
MSI shortcu	its						Included: 1 shortcut	Collapse all
Name						Туре	Target	State
🖃 🔤 C:						Folder		Changed
🕀 📄 Program	m Files (x86)					Folder		Changed
🖃 🛄 Program	mData					Folder		Changed
E Mic	rosoft					Folder		Changed
•	Search					Folder		Changed
	Windows					Folder		Changed
	Start Menu					Folder		Changed
	Programs	Import chartcuts				Folder		Changed
	Firefox.	New electronic				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp	New shortcut				Folder		Changed
	Windows Defender	New subfolder				Folder		Changed
Users		Properties	F2			Folder		Changed
	ie	Move to folder				Folder		Changed
	Desister	Exclude	Del			Folder		Changed
	Desktop	Add to exclusion filte	r 🔸			Folder		Changed
I Window	- FIFEIOXIIIK	Delete	Shift+Del			Shortcut	C:\Program Files (X86)\Mozilia Filefox\filefox.exe	Added
I WINDOW		Delete	biint bei			Folder		Changed
Add 🔺	Exclude							



• Choose an LNK shortcut, which you want to import and click **Open**.

Browse to file with	icon					×
← → ~ ↑ 📙	« Loc	al Disk (C:) > Users > P	ublic > Public Desktop	5 V	Search Public Desktop	Q
Organize 🔻 Ne	w folde	r				
🖈 Quick access		Name	Date	Туре	Size Tag	5
Desktop	*	😥 Docu Generator 🍠 Mozilla Firefox	2/27/2017 3:06 PM 2/27/2017 3:57 PM	Shortcut Shortcut	3 KB 2 KB	
Documents	*	MSI Editor MSI Generator	2/27/2017 3:06 PM 2/27/2017 3:06 PM	Shortcut Shortcut	3 KB 3 KB	
E Pictures	*					
📃 This PC						
💣 Network						
• 《 Homegroup						
	F 31					
	rile <u>n</u> a	me: MSI Generator		Y [Open	Cancel

3.8.6.4.5 Move Shotcut

Move a shortcut from one folder to another.

• Go to the Shortcuts\Apps -> MSI tab.

	PKG-190450-144511.mgp	1						- 0
MENU	Package Files	Shortcuts\Apps	Registry	System resourc	es			
				MSI	UWP	APPV		
ASI short	cuts						Included: 1 shortcut	Collapse all
Name						Type	Target	State
						Folder		Changed
Pro	ogram Files (x86)					Folder		Changed
E Pro	gramData					Folder		Changed
	Microsoft					Folder		Changed
	Search					Eolder		Changed
	Windows					Folder		Changed
_	Start Menu					Folder		Changed
	Programs					Folder		Changed
	Firefox.Ink					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp					Folder		Changed
÷	Windows Defender					Folder		Changed
🖃 📄 Use	ers					Folder		Changed
•	pace					Folder		Changed
Ξ.	Public					Folder		Changed
=	Desktop					Folder		Changed
	🍯 Firefox.ink					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
🗉 📄 Wir	ndows					Folder		Changed

• Select Move to folder from the context menu of a shortcut, which you want to move to another folder. NOTE Only the included shortcuts could be moved. The excluded items are



highlighted in yellow and crossed out.

© Edit package - PKG-190430-144511.mgp							_		×
≡ MENU Package Files	Shortcuts\Apps Regi	stry Sys	stem resources						
Name C: Description Program Files (x86) Description Name Description Descripti		-	MSI	UWP	APPV Type Folder Folder Folder Folder Folder Folder	Included: 1 shortcut Target	State Changed Changed Changed Changed Changed Changed	ollapse a	3
Start Menu					Folder		Changed	(
Programs Firefox lok			1		Folder	CADrogram Filer (VRE)\Motilla Eirefox)firefox eve	Changed		-
wfp Windows-Defender Users Destep Destop Vindows Windows	Import shortcuts New shortcut New subfolder Properties Move to folder Exclude Add to exclusion filter Delete	F2 Del , Shift+Del			Folder Folder Folder Folder Folder Folder Shortcut Folder	CAProgram Files (x86)\Mozilla Firefox\firefox.exe	Changed Changed Changed Changed Changed Added Changed		
Add 🔺 Exclude									

• Select a new destination location from the folders tree and click Select.

Select a folder	_	×
Name		
🖃 🛄 C:		
Program Files (x86)		
🕢 🖿 Mozilla Firefox		
Mozilla Maintenance Service		
ProgramData		
Microsoft		
Windows		
Start Menu		
Programs		
wfp		
Users		
Public		
Desktop		
Windows		
V Select Cancel		

• If the shortcut was created during the capturing and its source LNK file was copied to the project folder, you will get the confirmation dialog. Click **Change** to confirm the shortcut relocation in the project and its LNK file in the project folder. NOTE Resources, located

outside the project folder, will not be moved on your file system.



3.8.6.4.6 Edit Shortcut

Edit the shortcut detail such as name, destination folder, shortcut type, icon, etc.

• Go to the Shortcuts\Apps -> MSI tab.

an package	PKG-190430-144511.mgp	1						- 0
MENU	Package Files	Shortcuts\Apps	Registry	System resourc	es			
				MSI	UWP	APPV		
ISI short	cuts						Included: 1 shortcu	t 💙 Collapse all
lame						Туре	Target	State
= C:						Folder		Changed
🕀 🛄 Pro	gram Files (x86)					Folder		Changed
🖃 📄 Pro	gramData					Folder		Changed
•	Microsoft					Folder		Changed
±	Search					Folder		Changed
=	Windows					Folder		Changed
	🖃 🔛 Start Menu					Folder		Changed
	Programs					Folder		Changed
	🕹 Firefox.Ink					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp					Folder		Changed
÷	Windows Defender					Folder		Changed
🖃 🛄 Use	rs					Folder		Changed
•	pace					Folder		Changed
8	Public					Folder		Changed
=	Desktop					Folder		Changed
	🍯 Firefox.Ink					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
🗉 📄 Win	ndows					Folder		Changed


Select Properties from the context menu of a shortcut, details of which you want to edit.

 Edit package - PKG-190430-144511.mgp –

≡ menu	Package	Files	Shortcuts\Apps	Registry S	System resource	25			
					MSI	UWP	APPV		
MSLch	ortcuts								
14131 311	oricuts							Included: I shortcut	Collapse all
Name							Туре	Target	State
🖃 📄 C:							Folder		Changed
•	Program Files (x86)					Folder		Changed
	ProgramData						Folder		Changed
8	Microsoft						Folder		Changed
	Search						Folder		Changed
	Windows						Folder		Changed
	Start N	lenu					Folder		Changed
	E Pro	ograms					Folder		Changed
		Firefox.Ink	Import shortcuts				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp		New shortcut				Folder		Changed
	Windows-L	Jetender	New subfolder				Folder		Changed
	Users		New Subiolder		-		Folder		Changed
	pace		Properties	F2			Folder		Changed
8			Move to folder				Folder		Changed
	Desktop		Exclude	Del			Folder		Changed
		HINK	Add to exclusion fil	ter	•		Shortcut	C:\Program Files (x86)\Mozilla Firefox\tirefox.exe	Added
±	windows		Delete	Shift+Del			Folder		Changed
Add 4	Exclud	e							

• Update the necessary values such as icon, shortcut name, installation folder, type, target, arguments and so on. Afterwards, click **Save**.

Properties	_		Х
Shortcut			
Name			
Firefox.lnk			
Target (installation) folder			
C:\ProgramData\Microsoft\Windows\Start Menu\Programs		Browse	
 Details Shortcut type Advertised shortcut Regular (non-advertised) shortcut 			
Shortcut target			
C:\Program Files (x86)\Mozilla Firefox\firefox.exe		Browse	
Arguments			
Start in (WkDir)			
C:\Program Files (x86)\Mozilla Firefox		Browse	
Run			
Normal window			~
Save Cancel			



 \Box \times

3.8.6.4.7 Delete Shortcut

Delete an MSI shortcut from the project.

• Go to the Shortcuts\Apps -> MSI tab.

	G-190430-144511.mgp							- 0
MENU Pa	ackage Files	Shortcuts\Apps	Registry	System resour	ces			
				MSI	UWP	APPV		
MSI shortcu	uts						Included: 1 shortcut	
Name						Type	Target	State
- C:						Folder		Changed
Program	m Files (x86)					Folder		Changed
Program	mData					Folder		Changed
😑 📃 Mie	crosoft					Folder		Changed
• 🗀	Search					Folder		Changed
	Windows					Folder		Changed
=	Start Menu					Folder		Changed
	Programs					Folder		Changed
	🍯 Firefox.Ink					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp					Folder		Changed
• [Windows Defender					Folder		Changed
Users						Folder		Changed
🕀 📄 pac	ce					Folder		Changed
😑 🛄 Put	blic					Folder		Changed
⊟ []	Desktop					Folder		Changed
	Firefox.Ink					Shortcut	C\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
Windo	WS					Folder		Changed

• As the **Delete** is available only for the excluded resources, first exclude an item, which you want to delete, selecting **Exclude** from the context menu. Note that the excluded items are highlighted in yellow and crossed out.

Edit package - PKG-190430-144511.mgp					- 🗆	×
≡ MENU Package Files	Shortcuts\Apps Registry Sy	ystem resources				
MSI shortcuts Name C: Description Descript		MSI UWP	APPV Type Folder Folder Folder Folder Folder	Included: 1 shortcut	Collapse of Changed Ch	all
Start Menu Programs			Folder		Changed	
Firefox.Ink		7	Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added	
Windows-Defender Users	Import shortcuts New shortcut New subfolder		Folder Folder Folder		Changed Changed Changed	
pace Public Desktop Eirefox.lok	Properties F2 Move to folder Exclude Del		Folder Folder Folder	CABrooram Ellar (VBE))Mozilla Eirafov/ficafov ava	Changed Changed Changed	
Windows	Add to exclusion filter Delete Shift+Del		Folder		Changed	
Add 🔺 Exclude						



 Select Delete from the context menu of the excluded item, which you want to delete from the project.

Edit package - PKG-190430-144511.mgp						- 0
≡ MENU Package Files	Shortcuts\Apps Reg	istry Sys	tem resources			
		_	MSI U	WP APPV		
MSI shortcuts					Included: 0 shortcuts	Collapse all
Name				Туре	Target	State
= _ C:				Folder		Changed
				Folder		Changed
🖃 📄 ProgramData				Folder		Changed
Microsoft				Folder		Changed
🕒 🛅 Search				Folder		Changed
Windows				Folder		Changed
🖃 📄 Start Menu				Folder		Changed
Programs				Folder		Changed
Firefox.ink			1	Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
wfp	Import shortcuts			Folder		Changed
Windows-Defender	New shortcut			Folder		Changed
Users	New subfolder			Folder		Changed
	Properties	F2		Folder		Changed
Public	Move to folder	12		Folder		Changed
Desktop	Include	Inc		Folder		Changed
🜖 Firefox.lnk	include	ins .		Shortcut	Ci\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
Windows	Add to exclusion filter	• •		Folder		Changed
	Delete	Shift+Del				
Add 🔺 Delete						

• If the shortcut was created during the capturing and its source LNK file was copied to the project folder, you will get the confirmation dialog. Click **Delete** to confirm the shortcut deletion form the project and LNK file from the project folder. NOTE Resources, located outside the project folder, will not be deleted from your file system.

🕼 MSI Gei	nerator	×
Q	Do you want to permanently delete this file?	
	This operation will delete the file from the project folder on the file system and save the opened project.	
	Delete <u>C</u> ancel	



3.8.6.5 File/Folder Permissions

Choose a scenario that better suits your needs:

- Set Permissions, described in section 3.8.6.5.1 Set custom permissions for a file or folder.
- Remove Permissions, described in section 3.8.6.5.2 Remove the custom permissions from a file or folder.

3.8.6.5.1 Set Permissions

Set custom permissions for a file or folder.

• Go to the Files tab.

Edit package - PKG-190430-144511.mgp			- 🗆 ×
≡ MENU Package Files Shortcuts\Apps Registry System resources			
Files and folders	Include	ed: 111 files (158,8 MB)) V Collapse all
Name	Туре	Size	State
B C	Folder		Changed
Program Files (x86)	Folder		Changed
🕀 🔚 Mozilla Firefox	Folder		Added
🖃 🔤 Mozilla Maintenance Service	Folder		Added
🛙 🗖 legs	Folder		Added
aintenanceservice.exe	EXE	197,4 KB	Added
Uninstall.exe	EXE	87,5 KB	Added
📄 updater.ini	INI	1,2 KB	Added
🖃 🔤 ProgramData	Folder		Changed
🖃 🔤 Microsoft	Folder		Changed
🗈 🔄 Search	Folder		Changed
🖼 🔤 Windows	Folder		Changed
😠 🔤 Start Menu	Folder		Changed
😠 🦢 włp	Folder		Changed
🔁 🔄 Windows-Defender	Folder		Changed
🗋 Users	Folder		Changed
E 🗋 Windows	Folder		Changed
🗈 🔁 appcompat	Folder		Changed
🔁 🔁 Prefetch	Folder		Changed
🖸 🔁 System32	Folder		Changed
🗄 🔄 Temp	Folder		Changed
Add • Exclude			





• Select **Properties** from the context menu of a file or folder, for which you want to set new permissions.

	Shortdaaytpp	negiony	Sjoten resources			
les and folders				Incl	uded: 111 files (158,8 MB	3) V Collapse a
lame				Туре	Size	State
C:				Folder		Changed
Program Files (x86)				Folder		Changed
🗉 🔛 Mozilla Firefox				Folder		Added
🖃 🔛 Mozilla Mainten	Import files			Folder		Added
🗈 🛄 logs	New subfolder			Folder		Added
📄 maintenance	Properties	F2		EXE	197,4 KB	Added
Uninstall.exe	Move to folder			EXE	87,5 KB	Added
📄 updater.ini	Exclude	Del		INI	1,2 KB	Added
ProgramData	Add to ovelusion filter			Folder		Changed
 Microsoft 	Add to exclusion litter	Chiffer Dul		Folder		Changed
🗈 🛅 Search	Delete	Shift+Del		Folder		Ghanged
Windows	APPV virtualization leve	I →		Folder		Changed
🕀 📄 Start Mem	J			Folder		Changed
🕀 🛄 wfp				Folder		Changed
🕀 🛅 Windows Defe	ender			Folder		Changed
🕀 🛄 Users				Folder		Changed
Windows				Folder		Changed
🗄 🛅 appcompat				Folder		Changed
🕀 🛅 Prefetch				Folder		Changed
System32				Folder		Changed
🗉 🛄 Temp				Folder		Changed

• Go to the Permissions tab of the opened Properties window.

Properties			—		\times
	General	Permissions			
Enable permission changes					
Group/SID		Access rights		Allow	Deny
		Full control			
		Modify			
		Read and Execute			
		List Folder Contents			
		Read			
		Write			
		Special permissions			
		Select special permissions			
		Apply 'Allow' permissions and/or containers within the second	to obje his cor	ects ntainer o	only
		Apply 'Deny' permissions t	to obie	ects	-
Add Remove		and/or containers within the	his cor	ntainer o	only
Fnable inheritance					
Propagate inheritable permission	ons to all su	bfolders and files			\sim
[Save	Cancel			



• Tick the Enable permission changes checkbox and click Add to add a group or SID, for which you want to set permissions.

Properties		-	- 🗆	>
	General	Permissions		
✓ Enable permission change	es			
Group/SID		Access rights	Allow	Deny
		Full control		
		Modify		
		Read and Execute		
		List Folder Contents		
		Read		
		Write		
		Special permissions		
		Select special permissions		
		Apply 'Allow' permissions to a and/or containers within this	objects container	only
		Apply 'Deny' permissions to c and/or containers within this	objects container	only
LAdd Kem	ove			
Enable inheritance				
Propagate inheritable perm	issions to all su	bfolders and files		~
	Save	Cancel		

• Select a group from the list or enter SID manually and then click Add.

Add Group or SID	×
⊖ Group	
Built-in users (BU)	~
o sid	
Add Cancel	



• Select the necessary access rights for the added group or SID and click Save. NOTE The set permissions will be propagated using the SecEdit tool.

Properties		_		>
Gene	eral Permissions			
Enable permission changes				
Group/SID	Access rights		Allow	Deny
Built-in users (BU)	Full control			
	Modify		*	
	Read and Execute		\checkmark	
	List Folder Contents		\checkmark	
	Read		\checkmark	
	Write		\checkmark	
	Special permissions			
	Select special permission:	5		
	 Apply 'Allow' permissions and/or containers within 	s to obj this co	jects ntainer o	only
Add Remove	Apply 'Deny' permissions and/or containers within	to obj this co	ects ntainer o	only
Enable inheritance				
Propagate inheritable permissions to	all subfolders and files			~
S	ave Cancel			

3.8.6.5.2 Remove Permissions

Remove the custom permissions from a file or folder.



• Go to the Files tab.

100.0	Turne	Fizo	State
	Type Talda	3120	State
C: Drogram Filer (v96)	Folder		Changed
Program mes (xoo)	Folder		Added
Mozilla Maintenance Service	Folder		Added
	Folder		Added
maintenanceservice.exe	EXF	197.4 KB	Added
	EXE	87.5 KB	Added
🖹 updater.ini	INI	1.2 KB	Added
ProgramData	Folder		Changed
Microsoft	Folder		Changed
😠 🥅 Search	Folder		Changed
Windows	Folder		Changed
🕀 📰 Start Menu	Folder		Changed
🕒 🛄 wfp	Folder		Changed
Windows Defender	Folder		Changed
Users	Folder		Changed
Windows	Folder		Changed
🗈 🛅 appcompat	Folder		Changed
🕀 🛅 Prefetch	Folder		Changed
E System32	Folder		Changed
🗉 🗋 Temp	Folder		Changed

• (*Optional*) Apply the Hide items without permissions filter to display only those files and folders, which contain permission changes.

© Edit package - PKG-190430-144511.mgp			- 🗆 ×
≡ MENU Package Files Shortcuts\Apps Registry System resources			
Files and folders	b	Included: 111 files (158.8 MR)	Collapse all
Name	Type 🗆 Hi	ide empty folders	
BC	Folde 🗌 Hi	ide excluded items	iged
Program Files (x86)	Folde 🗌 Hi	ide items without permissior	ns ged
🗑 🛄 🔍 Mozilla Firefox	Folde		:d
Mozilla Maintenance Service	Folde 🛄 Hi	ide added files	ed
	Folde Hi	ide changed files	id .
Ininctal ava	EXE Hi	ide removed files	Ed
	INI Clear	r filtor	ed .
ProgramData	Folder	r miter	Changed
Microsoft	Folder		Changed
🗷 🛅 Search	Folder		Changed
Windows	Folder		Changed
🗈 📃 Start Menu	Folder		Changed
🗷 🛄 wip	Folder		Changed
C Windows Defender	Folder		Changed
Users	Folder		Changed
Windows	Folder		Changed
appcompat	Folder		Changed
	Folder		Changed
U Systemsz	Folder		Changed
	FOIGEF		Ghangeo
Add 🔺 Exclude			



 Select Properties from the context menu of a file or folder, for which you want to remove permissions.



• Go to the Permissions tab of the opened Properties window.

Properties		- 0	×
General	Permissions		
Enable permission changes			
Group/SID	Access rights	Allow	Deny
Built-in users (BU)	Full control		
	Modify	\checkmark	
	Read and Execute	\checkmark	
	List Folder Contents	\checkmark	
	Read	\checkmark	
	Write	\checkmark	
	Special permissions		
	Select special permissions		
	Apply 'Allow' permissions to and/or containers within this	objects s container	only
	Apply 'Deny' permissions to	obiects	
	and/or containers within this	s container	only
Add Remove			
Enable inheritance			
Propagate inheritable permissions to all	subfolders and files		~
Save	Cancel		



• Untick the Enable permission changes checkbox and click Save.

Properties	0		_		×
	General	Permissions			
Enable permission changes					
Group/SID		Access rights		Allow	Deny
Built-in users (BU)		Full control			
		Modify		\checkmark	
		Read and Execute		\checkmark	
		List Folder Contents		\checkmark	
		Read		\checkmark	
		Write		\checkmark	
		Special permissions			
		Select special permissions			
		Apply 'Allow' permissions to and/or containers within thi	o obje is con	cts tainer	only
Add Remove		Apply 'Deny' permissions to and/or containers within the	o obje is con	cts tainer	only
Enable inheritance					
Propagate inheritable permission	ons to all su	bfolders and files			\sim
[Save	Cancel			

3.8.6.6 Registry Permissions

Choose a scenario that better suits your needs:

- Set Permissions, described in section 3.8.6.6.1 Set custom permissions for a registry key.
- **Remove Permissions**, described in section 3.8.6.6.2 Remove the custom permissions from a registry key.

3.8.6.6.1 Set Permissions

Set custom permissions for a registry key.



Go to the Registry tab.

© Edit package - PKG-190430-144511.mgp			- 🗆 X
■ MENU Package Files Shortcuts\Apps Registry System resources	_		
Registry		Included: 113 values	Collapse all
Name	Туре	Value	State
HKEY_CLASSES_ROOT	System hive		
HKEY_CURRENT_USER	System hive		
🖃 🛄 Software	Key		Changed
Gasses	Key		Changed
Microsoft	Key		Changed
HKEY_LOCAL_MACHINE	System hive		
SOFTWARE	Key		Changed
🗈 🔚 Classes	Key		Changed
Clients	Key		Changed
Microsoft	Key		Changed
🗈 🔚 Mozilla	Key		Added
Policies	Key		Changed
Registered Applications	Key		Changed
🗉 🔤 WOW6432Node	Key		Changed
System	Key		Changed
CurrentControlSet	Key		Changed
	System hive		
G C JEFAULT	Key		Changed
Software	Key		Changed
Add 🔺 Exclude			

Select Properties from the context menu of a registry key, for which you want to set new • permissions. Note that permissions could not be changed for the registry values and root hives.

Edit package - PKG-190430	-144511.mgp					- 🗆 ×
E MENU Package	Files Shortcuts	Apps Regis	stry System resources			
Registry					Included: 113 v	values 💙 Collapse all
Name				Туре	Value	State
HKEY_CLASSES_ROO	т			System hive		
HKEY_CURRENT_USE	R			System hive		
Software				Key		Changed
Classes				Key		Changed
🗉 🔛 Microsoft				Key		Changed
HKEY_LOCAL_MACH	NE			System hive		
SOFTWARE				Key		Changed
🗉 🔚 Classes				Key		Changed
🗉 🔚 Clients				Кеу		Changed
Microsoft				Key		Changed
Mozilla	Import registry	_		Key		Added
Policies	Evport registry			Key		Changed
Registere	Export registry			Key		Changed
WOW643	New key			Key		Changed
System	New value			Key		Changed
CurrentCi	D 11	50		Key		Changed
HKEY_USERS	Properties	F2		System hive		
DEFAULT	Move to			Key		Changed
	Exclude	Del		Key		Changed
	Add to exclusion filter	•				
	Delete	Shift+Del				
	APPV virtualization leve	I •				
Add 🔺 Exclu	de					



• Go to the Permissions tab of the opened Properties window.

Properties	I	I	- C) >
	General	Permissions		
Enable permission changes				
Group/SID		Access rights Full control Read Special permissions		w Deny
		Select special permissions Apply 'Allow' permissions to and/or containers within thi	o objects is containe	er only
Add Remove	2	Apply 'Deny' permissions to and/or containers within this	o objects is containe	er only
Enable inheritance				
Propagate inheritable permissi	ons to all si	ubkeys and values		\sim
	Save	Cancel		

١



• Tick the Enable permission changes checkbox and click Add to add a group or SID, for which you want to set permissions.

a want to set permissions					
Properties			-		>
	General	Permissions			
Enable permission changes					
Group/SID		Access rights Full control Read Special permissions		low D)eny
		Select special permissions	o objects is contai	s ner ol	nly
Add Remove		Apply 'Deny' permissions to and/or containers within thi	o objects is contai	ner or	nly
Propagate inheritable permissio	ons to all s	ubkeys and values			~
	Save	Cancel			

• Select a group from the list or enter SID manually and then click Add.

😂 Add Gro	oup or SID		×
() Group			
Built-i	n users (BU)		~
O SID			
	Add	Cancel	



• Select the necessary access rights for the added group or SID and click Save. NOTE The set permissions will be propagated using the SecEdit tool.

	opagatea asing the seel			
Properties		—		×
General	Permissions			
Enable permission changes				
Group/SID	Access rights		Allow	Deny
Built-in users (BU)	Full control		✓	
	Read		\checkmark	
	Special permissions			
Add Remove	Select special permissions Apply 'Allow' permissions and/or containers within t Apply 'Deny' permissions and/or containers within t 	to obj his col to obj his col	ects ntainer o ects ntainer o	only
Enable inheritance				
Propagate inheritable permissions to all s	ubkeys and values			~
Save	Cancel			

3.8.6.6.2 Remove Permissions

Remove the custom permissions from a registry key.



Go to the Registry tab. •

😰 Edit package - PKG-190430-144511.mgp — 🗆					
■ MENU Package Files Shortcuts\Apps Registry System resources	_				
Registry		Included: 113 values	Collapse all		
Name	Туре	Value	State		
HKEY_CLASSES_ROOT	System hive				
HKEY_CURRENT_USER	System hive				
🖃 🛄 Software	Key		Changed		
Gasses	Key		Changed		
🗷 🔚 Microsoft	Key		Changed		
HKEY_LOCAL_MACHINE	System hive				
SOFTWARE	Key		Changed		
Classes	Key		Changed		
Clients	Key		Changed		
🗈 🔚 Microsoft	Key		Changed		
🗈 🔚 🔍 Mozilla	Key		Added		
Policies	Key		Changed		
Registered Applications	Key		Changed		
🗈 🔚 WOW6432Node	Key		Changed		
🖃 🔚 System	Key		Changed		
E CurrentControlSet	Key		Changed		
	System hive				
E Default	Key		Changed		
🗈 🛅 Software	Key		Changed		
Add 🔺 Exclude					

(Optional) Apply the Hide items without permissions filter to display only those registry keys, • which contain permission changes.

Edit package - PKG-190430-144511.mgp				- 🗆 ×
■ MENU Package Files Shortcuts\Apps	Registry System resources			
Registry			lactudad: 112. valuas	Collapse all
Name		Туре	Hide excluded items	State
HKEY_CLASSES_ROOT		System hive	Hide items without permissions	
HKEY_CURRENT_USER		System hive		
Software		Key	Hide added registry values	Changed
Glasses		Key	Hide changed registry values	Ghanged
Microsoft		Key		Changed
HKEY_LOCAL_MACHINE		System hive	☐ Hide removed registry values	
SOFTWARE		Кеу	Clear filter	Changed
🕀 🔚 Classes		Key		Changed
Clients		Кеу		Changed
🕀 🔚 Microsoft		Кеу		Changed
🕀 🛄 😪 Mozilla		Key		Added
Policies		Key		Changed
Registered Applications		Key		Changed
WOW6432Node		Key		Changed
🖃 🛄 System		Key		Changed
CurrentControiSet		Key		Changed
		System hive		
		Key		Changed
Software		Key		Changed
Add 🔺 Exclude				



• Select **Properties** from the context menu of a registry key, for which you want to remove permissions.

Edit package - PKG-190430-144511.mgp			– 🗆 ×
≡ MENU Package Files Shortcuts\Apps Registry Sys	stem resources		
Registry		Included: 113 values	Collapse all
Name	Туре	Value	State
HKEY_CLASSES_ROOT	System hive		
HKEY_CURRENT_USER	System hive		
G Software	Key		Changed
Classes	Key		Ghanged
🕀 🔚 Microsoft	Key		Changed
HKEY_LOCAL_MACHINE	System hive		
SOFTWARE	Key		Changed
Classes	Key		Changed
Clients	Key		Changed
Microsoft	Key		Changed
🕢 🔍 Mozilla	Key		Added
Policies Import registry	Key		Changed
Registered, Export registry	Key		Changed
WOW6432 New key	Key		Changed
System New value	Key		Changed
	Key		Changed
Properties F2	System nive		Changed
	Kay		Changed
Exclude Del	ney		enangeo
Add to exclusion filter			
Delete Shift+Del			
APPV virtualization level			
Add 🔺 Exclude			

• Go to the Permissions tab of the opened Properties window.

	Access rights Full control Read Special permissions	Allow Deny
	Select special permissions Apply 'Allow' permissions to and/or containers within thi Apply 'Deny' permissions to and/or containers within thi	o objects s container only o objects s container only
ons to all su	bkeys and values	~
	ons to all su	Access rights Full control Read Special permissions Select special permissions Apply 'Allow' permissions to and/or containers within thi Apply 'Deny' permissions to and/or containers within thi ons to all subkeys and values



• Untick the Enable permission changes checkbox and click Save.

there endble permission ending	ges checkbox and chek save	•	
Properties		- 🗆	×
General	Permissions		
Enable permission changes			
Group/SID	Access rights	Allow	Deny
Built-in users (BU)	Full control	\checkmark	
	Read	\checkmark	
	Special permissions		
	Select special permissions	o objects s container	r only
	Apply 'Deny' permissions to and/or containers within thi	objects s container	only
Add Remove			
Enable inheritance			
Propagate inheritable permissions to all	subkeys and values		\sim
Save	Cancel		



3.8.6.7 Select Compression Type

Select the compression type for the package files.

• Go to the Package -> MSI tab.

Edit package - PKG-190430-144511.mgp			– U X
	tcuts\Apps Registry	System resources	25
	MSI	MST	UWP APPV THINAPP
Application Details			MSI Package Options
Application name			MSI settings profile
Firefox			default 🗸 Edit
Publisher			Project folder
Mozilla			C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Browse Go to
Version	Product language		MSI CodePage
63.0.3	1033		0 Neutral 🗸
Product code			INSTALLDIR
{0A6CB50B-C191-4E46-B206-F07A76BAD95	7}	New GUID	
Upgrade code			BUILD LOG Detected MSI installations Open log
{99F27E0A-B935-4175-B70D-966E4D302030	}	New GUID	Type Elapsed Step
Generate new codes when build MSI			
Summary Information			
Title	Subject		
Installation Database			
Author	Keywords		
	Install,MSI		
Comments			
This installer database contains the logic and	I data required to install <pre< th=""><td>oduct name>.</td><td></td></pre<>	oduct name>.	
Platform	Languages		
Autodetect	0		00:00 Copen MSI Copen MSI

• Click Edit, located next to the MSI settings profile field.

Edit package - PKG-190430-144511.mgp			- □ >
≡ MENU Package Files Short	cuts\Apps Registry S	System resources	es international de la constant de la consta
	MSI	MST	UWP APPV THINAPP
Application Details			MSI Package Options
Application name			MSI settings profile
Firefox			default 🗸 Edit
Publisher			Project folder
Mozilla			C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Browse Go to
Version	Product language		MSI CodePage
63.0.3	1033		0 Neutral 🗸
Product code			INSTALLDIR
{0A6CB50B-C191-4E46-B206-F07A76BAD957	}	New GUID	
Upgrade code			BUILD LOG Detected MSI installations Open log
{99F27E0A-B935-4175-B70D-966E4D302030}	}	New GUID	Type Elapsed Step
Generate new codes when build MSI			
Summary Information			
Title	Subject		
Installation Database			
Author	Keywords		
	Install,MSI		
Comments			
This installer database contains the logic and	data required to install <produce< td=""><td>ct name>.</td><td></td></produce<>	ct name>.	
Platform	Languages		Elarad time
Autodetect 🗸	0		00:00



• On the General tab, select the necessary compression type from the MSI compression field and click Save.

MSI settings profile	×
Profile name	
default	
General	Basic MSI template C:\Program Files (x86)\PACE Browse Go to
Summary Information	MSI compression
Registry	Compressed in MSI
Shortcuts	 Administrative image MSI CodePage
Properties	0 Neutral 🗸
Per-User data	☐ Fill in MsiFileHash table ✓ Check for .Net and WinSxS Assemblies
INI files	
Merge Modules	
Permissions	
Transforms	
	Save Cancel



3.8.6.8 Use Advertising Tables

Select which of MSI advertizing tables will be used for storing the capturing registry.

• Go to the Package -> MSI tab.

Edit package - PKG-190430-144511.mgp											-	
E MENU Package Files Sho	rtcuts\Apps	Registry	System resource	IS								
		MSI	MST	UWP	A	PPV	THINAPP					
Application Details				M	SI Pac	kage C	Options					
Application name				MSI	settings p	rofile						
Firefox				def	fault						~	Edit
Publisher				Proj	ect folder							
Mozilla				C:\	\Users\pa	ace\Docur	ments\MSI G	enerator\Packag	es\PKG-1	Browse		Go to
Version	Product lan	guage		MSI	CodePage							
63.0.3	1033			0	Ne	utral						~
Product code				INST	TALLDIR							
{0A6CB50B-C191-4E46-B206-F07A76BAD95	7}		New GUID									~
Upgrade code					BUILD	LOG	Detected MS	I installations				Open log
{99F27E0A-B935-4175-B70D-966E4D30203	D}		New GUID	Туг	pe	Elapsed	Step					
Generate new codes when build MSI												
Summary Information												
Title	Subject											
Installation Database												
Author	Keywords											
	Install,MS	SI										
Comments												
This installer database contains the logic and	d data require	d to install <pr< td=""><td>oduct name>.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pr<>	oduct name>.									
Platform	Languages				1.2							
Autodetect	✓ 0			Elap 00:0	osed time 00				🖸 Ope	n MSI	ψ	Build MSI

• Click Edit, located next to the MSI settings profile field.

© Edit package - PKG-190430-144511.mgp			- 🗆 X
≡ MENU Package Files Shortc	uts\Apps Registry	System resources	
	MSI	MST	UWP APPV THINAPP
Application Details			MSI Package Options
Application name			MSI settings profile
Firefox			default 🗸 Edit
Publisher			Project folder
Mozilla			C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Browse Go to
Version	Product language		MSI CodePage
63.0.3	1033		0 Neutral 🗸
Product code			INSTALLDIR
{0A6CB50B-C191-4E46-B206-F07A76BAD957}		New GUID	~ ~
Upgrade code			BUILD LOG Detected MSI installations Open log
{99F27E0A-B935-4175-B70D-966E4D302030}		New GUID	Type Elapsed Step
Generate new codes when build MSI			
Summary Information			
Title	Subject		
Installation Database			
Author	Keywords		
	Install,MSI		
Comments			
This installer database contains the logic and d	ata required to install <pro< td=""><td>duct name>.</td><td></td></pro<>	duct name>.	
Platform	Languages		
Autodetect 🗸	0		Elapsed time 00:00 Copen MSI 🔅 Build MSI

• Go to the **Registry** tab and tick the advertizing tables, which you want to use for storing the captured registry. Afterwards, click **Save**.



NOTE The use of <u>TypeLib table</u> is not recommended.

MSI settings profile	×
Profile name	
default	
General	Use MSI advertizing tables
Summary Information	
Registry	Use ODBC Table
Shortcuts	ODBC data sources Enabling this option may cause an error during
Properties	installation in some cases (e.g. if an ODBC driver is not found on the system or if a database is not accessible).
Per-User data	Services
INI files	Install services by
Merge Modules	ServiceInstall table
Permissions	
Transforms	
	Save Cancel



3.8.6.9 Add Active Setup

Intergrate the Active Setup to the MSI package automatically, if it contains per-user data.

• Go to the Package -> MSI tab.

Edit package - PKG-190430-144511.mgp										-	
≡ MENU Package Files SI	hortcuts\Apps	Registry	System resource	s							
		MSI	MST	UWF	P	APPV	THI	NAPP			
Application Details					MSI Pa	ckage C	Optio	ns			
Application name					MSI settings	profile					
Firefox					default					~	Edit
Publisher					Project folde	r					
Mozilla					C:\Users\	pace\Docu	ments\l	MSI Generator\Packages\	PKG-1 Brows	ie	Go to
Version	Product lan	guage			MSI CodePa	ge					
63.0.3	1033				0 N	eutral					
Product code					INSTALLDIR						
{0A6CB50B-C191-4E46-B206-F07A76BAD	957}		New GUID								
Upgrade code					BUILD	LOG	Detect	ted MSI installations			Open log
{99F27E0A-B935-4175-B70D-966E4D302	030}		New GUID	:	Туре	Elapsed		Step			
Generate new codes when build MSI											
Summary Information											
Title	Subject										
Installation Database											
Author	Keywords										
	Install,MS	51									
Comments											
This installer database contains the logic	and data required	d to install <pr< td=""><td>oduct name>.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pr<>	oduct name>.								
Platform	Languages										
Autodetect	< 0				Elapsed tim	e			Z 0 MCI	2	D: LA MCI

• Click Edit, located next to the MSI settings profile field.

Edit package - PKG-190430-144511.mgp			- 🗆 X
	cuts\Apps Registry	System resources	5
	MSI	MST	UWP APPV THINAPP
Application Details			MSI Package Options
Application name			MSI settings profile
Firefox			default 💙 Edit
Publisher			Project folder
Mozilla			C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Browse Go to
Version	Product language		MSI CodePage
63.0.3	1033		0 Neutral 🗸
Product code			INSTALLDIR
{0A6CB50B-C191-4E46-B206-F07A76BAD957}		New GUID	✓
Upgrade code			BUILD LOG Detected MSI installations Open log
{99F27E0A-B935-4175-B70D-966E4D302030}		New GUID	Type Elapsed Step
Generate new codes when build MSI			
Summary Information			
Title	Subject		
Installation Database			
Author	Keywords		
	Install,MSI		
Comments			
This installer database contains the logic and c	data required to install <prod< td=""><td>uct name>.</td><td></td></prod<>	uct name>.	
Platform	Languages		
Autodetect 🗸	0		Elapsed time 00:00 Control Con



• Go to the Per-User data tab and tick the Use Active Setup for storing peruser data option. Then click Save.

NOTE If the project contains per-user data, the Active Setup will be automatically integrated.

MSI settings profile		Х
Profile name		
default		
General	User-Part feature name	_
Summary Information	User-Part component name	
Registry	CurrentUser	
Shortcuts	✓ Use Active Setup for storing peruser data ✓ Do not create empty folder under user profile	
Properties	☑ Do not add folder under user profile to RemoveFile table	
Per-User data		
INI files		
Merge Modules		
Permissions		
Transforms		
	Save Cancel	



3.8.6.10 Set Summary Information

Set the default Summary Information values, which will be saved to each created MSI package.

• Go to the Package -> MSI tab.

Edit package - PKG-190430-144511.	mgp			- 0
≡ MENU Package File	s Shortcuts\Apps	Registry	System resource	es
		MSI	MST	UWP APPV THINAPP
Application Details				MSI Package Options
Application name				MSI settings profile
Firefox				default 🗸 Edit
Publisher				Project folder
Mozilla				C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Browse Go to
Version	Product	anguage		MSI CodePage
63.0.3	1033			0 Neutral
Product code				INSTALLDIR
{0A6CB50B-C191-4E46-B206-F07	A76BAD957}		New GUID	
Upgrade code				BUILD LOG Detected MSL installations Open lo
{99F27E0A-B935-4175-B70D-966	E4D302030}		New GUID	Type Elapsed Step
Generate new codes when buil	d MSI			
Summary Information				
Title	Subject			
Installation Database				
Author	Keyword	5		
	Install,	MSI		
Comments				
This installer database contains t	ne logic and data requi	red to install <pr< td=""><td>oduct name>.</td><td></td></pr<>	oduct name>.	
Platform	Languag	es		
Autodetect				Elapsed time

• Click Edit, located next to the MSI settings profile field.

© Edit package - PKG-190430-144511.mgp			- 🗆 X
≡ MENU Package Files Shortcu	uts\Apps Registry	System resources	
	MSI	MST	JWP APPV THINAPP
Application Details			MSI Package Options
Application name			MSI settings profile
Firefox			default 🗸 Edit
Publisher			Project folder
Mozilla			C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Browse Go to
Version	Product language		MSI CodePage
63.0.3	1033		0 Neutral 🗸
Product code			INSTALLDIR
{0A6CB50B-C191-4E46-B206-F07A76BAD957}		New GUID	✓
Upgrade code			BUILD LOG Detected MSI installations Open log
{99F27E0A-B935-4175-B70D-966E4D302030}		New GUID	Type Elapsed Step
Generate new codes when build MSI			
Summary Information			
Title	Subject		
Installation Database			
Author	Keywords		
	Install,MSI		
Comments			
This installer database contains the logic and da	ata required to install <prod< td=""><td>duct name>.</td><td></td></prod<>	duct name>.	
Platform	Languages		
Autodetect 🗸	0		Copen MSI 🗳 Build MSI

• Go the Summary Information tab and enter the default Summary Information values. Afterwards, click Save.

NOTE The specified Summary Information will be saved to each package, created with the use



of the edited profile. A name of the profile is displayed in the window heading.

MSI settings profile	×
Profile name	
default	
Control	Title
General	Installation Database
Summary Information	Author
Registry	
Shortcuts	Subject
Properties	Comments
Per-User data	This installer database contains the logic and data required to install <product name="">.</product>
INI files	Keywords
Merge Modules	Install,MSI
Permissions	
Transforms	
	Save Cancel

• Ensure that the edited profile is selected from the MSI settings profile field.

Edit package - PKG-190430-144511.mgp	
■ MENU Package Files Shortcuts\Apps Registry	System resources
MSI	MST UWP APPV THINAPP
Application Details	MSI Package Options
Application name	MSI settings profile
Firefox	default V Edit
Publisher	Project folder
Mozilla	C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Browse Go to
Version Product language	MSI CodePage
63.0.3 1033	0 Neutral 🗸
Product code	INSTALLDIR
{0A6CB50B-C191-4E46-B206-F07A76BAD957}	New GUID 🗸
Upgrade code	BUILD LOG Detected MSI installations Open log
{99F27E0A-B935-4175-B70D-966E4D302030}	New GUID : Type Elapsed Step
Generate new codes when build MSI	
Summary Information	
Title Subject	
Installation Database	
Author Keywords	
Install,MSI	
Comments	
This installer database contains the logic and data required to install <	roduct name>.
Platform Languages	
Autodetect 🗸 0	00:00 C Open MSI 🔅 Build MSI



3.8.7 MSIX/APPX Settings

Choose a scenario that better suits your needs:

- Create Modification Package, described in section 3.8.7.1 Create a modification package to customize the settings of the app, installed by main package.
- Set Display Properties, described in section 3.8.7.2 Control how your UWP app package will be displayed during the installation and the list of installed apps.
- Set Identity Properties, described in section 3.8.7.3 Define a globally unique identifier for your UWP package.
- Declare Capabilities, described in section 3.8.7.4 Declares the access to protected user resources that the package requires.
- Set Supported Platforms, described in section 3.8.7.5 Set the supported platforms (target device families) on which, the UWP package could be run.
- Manage Package Architectures, described in section 3.8.7.6 Select the processor architectures (x86, x64, ARM) on which you want to run your UWP package.
- Create Bundle, described in section 3.8.7.7 Combine the generated UWP packages into one single bundle.
- Sign Package/Bundle, described in section 3.8.7.8 Sign the generated package or bundle with a certificate for the testing purposes or distribution.
- Edit Manifest Manually, described in section 3.8.7.9 Edit the package manifest file(s) manually to modify existing or add new specific package settings.
- Manage Apps and Visual Assets, described in section 3.8.7.10 Include/exclude captured apps, add new ones and control their appearance settings such as logos, name, background color, etc.
- Generate AppInstaller, described in section 3.8.7.11 Generate the AppInstaller file for the non-Store distribution and automatic update of your UWP package.







3.8.7.1 Create Modification Package

Create a modification package to customize the settings of the app, installed by main package. At runtime the application will view resources of both the main package and the modification package. For information, see <u>MSIX modification packages on Windows 10 version 1809</u> and <u>MSIX modification</u> <u>packages on Windows 10 Insider Preview Build 18312 and later</u>.

• Go to the Package -> UWP tab.

Edit package - PKG-190430-144511.mgp								- 🗆	\times
≡ MENU Package Files Sho	rtcuts\Apps Registry	System resources							
	MSI	MST	UWP	APPV	THINAPP				
Display properties			UWP	oackage	options				
Package logo (50x50)			Package fo	rmat					
Browse			MSIX						~
Display name	Publisher display name		C:\Progr	n root folder am Files (x86	5)\Mozilla Firefox				~
Firefox	Mozilla			ipt building t	the package for manual	editing the manife	st		
Description			Project fol	der					
NOLINATIFICION			C:\Users	<pre>>pace\Docu</pre>	ments\MSI Generator\P	ackages\PKG-1	Browse	Go to)
Capabilities	Signature		Packa	ge ident	ity				
Declare access to the protected user resource	es. Sign the generated package	e/bundle.	Name	-		Publisher			
Edit capabilities	Edit signature		MozillaF	irefox		CN=Mozilla			
Dependencies	Architectures & Bu	undle	Version						
Specify package type (main/modification) an	d Set the compatible process	or architectures and	65.0.5.0					0	1.0.0
supported platforms.	bundle options.		Туре	Elapsed	Step			Open	iog
Edit dependencies	Edit architectures								
App Installer									
Generate the App Installer file to distribute a	nd								
update your application with a single click.			Elanced tu	200					
Edit appinstaller			00:00	ne	Review th	e UWP application lin	nitations	9 Build U	WP

• Click Edit dependencies.

🚽 Edit package - PKG- 190430- 1445 i T.mgp								-	
■ MENU Package Files Shortc	uts\Apps Registry	System resources							
	MSI	MST	UWP /	APPV	THINAPP				
Display properties			UWP pa	ackage op	otions				
ackage logo (50x50)			Package form	nat					
Browse			MSIX						
indus and	Dublishes disalau anna		Application r	oot folder					
isplay name	Mozillo		C:\Progran	n Files (x86)\M	ozilla Firefox				
escription	IVIOZINA		□ Interrup	t building the p	backage for manual edition	ng the mani	fest		
Mozilla Firefox			Project folder	r					
			C:\Users\p	bace\Documer	its\MSI Generator\Packag	ges\PKG-1	Browse	G	io to.
Capabilities	Signature		Package	e identitv					
eclare access to the protected user resources.	Sign the generated packa	ge/bundle.	i ucitagi	endernity	-				
Edit capabilities	Edit signature		MozillaFire	efox	P	CN=Mozilla	3		
			Version						
Dependencies	Architectures & E	Bundle	63.0.3.0						
pecify package type (main/modification) and	Set the compatible proces	ssor architectures and	BUILD	LOG				O	pen lo
	bundie options.		Туре	Elapsed	Step				
Edit dependencies	Edit architectures								
App Installer									
Senerate the App Installer file to distribute and pdate your application with a single click.									
Edit appinstaller			Elapsed time 00:00	2	Review the UW	P application	limitations	🔅 Buil	ld UW



 Select the Modification package for option and either enter a package identity name and publisher of the main package manually or click Read from file to get the necessary identity information from the main package automatically. Afterwards, click Save.
 NOTE The modification package could not declare capabilities and contain apps, therefore they will be automatically skipped.

Dependencies			
Package type			
⊖ Main package			
 Modification package for 			
Package name (identity)			
package.name			
Publisher			
CN=publisher			
Read from file			
Supported platforms			
 Only the following platform 	5		
Windows 10 (Desktop)			
Min version		Max version tested	
10.0.14393.0		✓ 10.0.17763.0	~
☐ Windows 8/8.1			
□ Windows 7			
□ MacOS			
ios			
Android			
□ Web			
	Save	Cancel	



3.8.7.2 Set Display Properties

Control how your UWP app package will be displayed during the installation and in the list of installed apps.

• Go to the Package -> UWP tab.

Edit package - PKG-190430-144511.mgp										-		×
	uts\Apps Registry	System resource	es									
	MSI	MST	UWP	APPV	(THINAPP	0					
Display properties			UV	VP pack	age o	options						
Package logo (50x50)			Pack	age format								
Browco			MSI	Х								~
Diowse	Publicher dicelau name		Appl	ication root fo	lder							
Firefox	Mozilla		C:\F	Program File	s (x86)\	Mozilla Fire	fox					~
Description				nterrupt buil	ding th	e package f	or manual edi	ting the mani	ifest			
Mozilla Firefox			Proje	ct folder	D			> RKC 1	Deervee		C - +-	
				Users (pace)	Docum	ients (ivisi G	enerator\Pack	ages\PKG-1	browse	·	GO to.	
Capabilities	Signature		Pa	ckage id	entit	y						
Declare access to the protected user resources.	Sign the generated pack	age/bundle.	Nam	e				Publisher				
Edit capabilities	Edit signature		Mo	zillaFirefox				CN=Mozilla	Э			
		D	Versi	on								
Dependencies	Architectures &	Bundle	63.	0.3.0								
Specify package type (main/modification) and supported platforms	Set the compatible proce bundle options	essor architectures a	and		5						Open l	og
			Тур	e Elaj	psed	Step						
Edit dependencies	Edit architectures											
App Installer												
Generate the App Installer file to distribute and update your application with a single click.												
Edit appinstaller			Elap: 00:00	ed time)			Review the U	WP application	limitations	ំព	Build UV	VP

• Set a new icon, display name, publisher display name and description in the **Display properties** section.

Edit package - F	РКС-190430-	144511.mgp													-		×
≡ MENU	Package	Files	Shortcuts	Apps	Registry	System resources											
					MSI	MST	UWP	A	APPV	TH	INAPP						
Display pro	operties							UWP pa	ackage	optio	ons						
Package logo (50x5	50)						F	Package form	at								
								MSIX									~
Bro	wse		_				1	Application r	oot folder								
Display name			P	ublisher disp	play name		- l	C:\Progran	n Files (x86	i)\Mozi	lla Firefox						~
Firelox				IVIOZIIIa			- [Interrupt	: building t	he pac	kage for m	nanual ed	ting the man	ifest			
Mozilla Eirofox								Project folder	-								
INIO2IIIa I Ireiox								C:\Users\p	ace\Docu	ments\	MSI Gener	ator\Pack	ages\PKG-1	Browse		Go to	
Capabilities	S		S	ignatu	ire			Package	e identi	ity							
Declare access to	o the prote	cted user re	sources. S	ign the ge	enerated pack	age/bundle.		Name		-			Publisher				
Edit capabi	lities			Edit s	ignature			MozillaFire	efox				CN=Mozilla	3			
Dependen	rios		/	rchite	ctures &	Bundle	N	Version									
Dependent	cies .			A CHILE	ctures of	Duniale		63.0.3.0									
Specify package supported platfo	type (main prms.	/modificatio	on) and S b	et the con undle opti	npatible proce ions.	essor architectures an	d	BUILD	LOG							Open lo	g
					1.5			Туре	Elapsed		Step						
Edit depende	encies			Edit arc	chitectures												
App Install	er																
Generate the Ap update your app	op Installer f plication wit	ile to distrib h a single cl	oute and lick.														
Edit appinst	taller						E	Elapsed time 00:00			Re	eview the U	WP application	limitations	фв	uild UW	P

3.8.7.3 Set Identity Properties

Define a globally unique identifier for your UWP package. A package identity is represented as a tuple of attributes of the package.

• Go to the Package -> UWP tab.

© Edit package - PKG-190430-144511.mgp			- 🗆 X
	cuts\Apps Registry System resources		
	MSI MST L	JWP APPV THINAPP	
Display properties		UWP package options	
Package logo (50x50)		Package format	
`		MSIX	~
Browse		Application root folder	
Display name	Publisher display name	C:\Program Files (x86)\Mozilla Firefox	~
Firefox	Mozilla	□ Interrupt building the package for ma	nual editing the manifest
Description		Project folder	
Mozilla Firefox		C:\Users\pace\Documents\MSI General	tor\Packages\PKG-1 Browse Go to
Capabilities	Signature	Package identity	
Declare access to the protected user resources.	Sign the generated package/bundle.	Name	Publisher
Edit capabilities	Edit signature	MozillaFirefox	CN=Mozilla
Deservation		Version	
Dependencies	Architectures & Bundle	63.0.3.0	
Specify package type (main/modification) and supported platforms.	Set the compatible processor architectures and bundle options.	BUILD LOG	Open log
E dite des se des sies	E dia analia ata san	Type Elapsed Step	
Eait dependencies	Edit architectures		
App Installer			
Generate the App Installer file to distribute and update your application with a single click.			
Edit appinstaller		Elapsed time 00:00 Revi	iew the UWP application limitations

• Update the necessary values in the Package identity section.

Edit package - PKG-190430-144511.mgp									- C	X
≡ MENU Package Files Shorto	uts\Apps Registry	System resources								
	MSI	MST	UWP	APPV	THIN	APP				
Display properties			UWI	P package	optior	ns				
Package logo (50x50)			Packag	e format						
Browse			MSIX							~
Display name	Publisher display name		Applica	ition root folder	6)\Mozilla	Eirofov				
Firefox	Mozilla		C.\FIC	ogram riles (xo		Firelox				•
Description				folder	the packag	ige for manual ed	iting the manif	est		
Mozilla Firefox			C:\Us	sers\pace\Docu	uments\MS	SI Generator\Pack	ages\PKG-1	Browse	Go	o to
Capabilities	Signature		Pack	vage ident	tity					
Declare access to the protected user resources.	Sign the generated packa	ige/bundle.	i Nama	age ident	illy		Dublisher			
Edit capabilities	Edit signature		Mozi	llaFirefox			CN=Mozilla			
Dependencies	Architectures & I	Bundle	Version	3.0						
Specify package type (main/modification) and	Set the compatible proce	ssor architectures an	d	5.0					00	
supported platforms.	bundle options.		Type	Flansed	5	Sten			Ope	eniog
Edit dependencies	Edit architectures		- 34-							
App Installer										
Generate the App Installer file to distribute and update your application with a single click.										
Edit appinstaller			Elapseo 00:00	d time		Review the U	WP application li	mitations	🗳 Build	UWP



3.8.7.4 Declare Capabilities

Declare the access to protected user resources that the package requires.

• Go to the Package -> UWP tab.

Ealt package - PRO-190450-144511.http								– u .
■ MENU Package Files Shortc	uts\Apps Registry	System resources						
	MSI	MST UN	VP	APPV	THINAPP			
Display properties			UWP p	ackage op	otions			
Package logo (50x50)			Package for	mat				
Browse			MSIX					
Display name	Publisher display name		C:\Progra	root folder m Files (x86)\N	lozilla Firefox			,
Firefox	Mozilla		□ Interrup	ot building the	package for manual e	editing the mani	fest	
Description Mozilla Eirefox			Project fold	er				
mozina metok			C:\Users\	pace\Docume	nts\MSI Generator\Pa	ackages\PKG-1	Browse	Go to
Capabilities	Signature		Packag	je identity				
Declare access to the protected user resources.	Sign the generated pack	age/bundle.	Name			Publisher		
Edit capabilities	Edit signature		MozillaFi	refox		CN=Mozilla	9	
Dependencies	Architectures &	Bundle	Version					
Specify package type (main/modification) and	Set the compatible proce	essor architectures and	03.0.3.0		Open log			
supported platforms.	bundle options.		Туре	Elapsed	Step			openiog
Edit dependencies	Edit architectures							
App Installer								
Generate the App Installer file to distribute and update your application with a single click.								
Edit appinstaller			Elapsed tim 00:00	ie	Review the	UWP application	limitations	🖞 Build UWP

• Click Edit capabilities.

© Edit package - PKG-190430-144511.mgp			- 🗆 ×
≡ MENU Package Files Shorto	cuts\Apps Registry System resources		
	MSI MST U	WP APPV THINAPP	
Display properties		UWP package options	
Package logo (50x50)		Package format MSIX Application root folder	×
Display name	Publisher display name	C:\Program Files (x86)\Mozilla Firefox	~ ~
Firefox	Mozilla	Interrupt building the package for manual	editing the manifest
Description		Project folder	
Mozilla Firefox		C:\Users\pace\Documents\MSI Generator\P	ackages\PKG-1 Browse Go to
Capabilities	Signature	Package identity	
Declare access to the protected user resources.	Sign the generated package/bundle.	Name	Publisher
Edit capabilities	Edit signature	MozillaFirefox	CN=Mozilla
Dependencies	Architectures & Bundle	Version 63.0.3.0	
Specify package type (main/modification) and supported platforms.	Set the compatible processor architectures and bundle options.	BUILD LOG	Open log
Edit dependencies	Edit architectures	Type Elapsed Step	
App Installer Generate the App Installer file to distribute and update your application with a single click.		Elapsed time	
Edit appinstaller		00:00 Review th	e UWP application limitations 🔅 Build UWP



• Select the necessary capabilities and click **Save**. NOTE The modification package could not declare capabilities.

	Juid Hot decidie capabilities.	
Capabilities		×
Capabilities		
Declare capabilities that the app needs.		
Internet	Internet client server	
□ Home and work networks	AllJoyn	
Code generation	Pictures	
□ Videos	Music	
Contacts	🗌 Calendar	
Enterprise	□ Shared user certificates	
□ User account information	Removable storage	
Phone calls	Read blocked messages	
□ 3D Objects	□ Voip calling	
🗆 Chat	Phone calls history public	
Spatial perception	Background media playback	
🗌 Remote system	User notification listener	
Offline maps management	User data tasks	
□ Graphics capture	🗌 Glodal media control	
Eye tracker	Recorded calls folder	
IoT system administrator	Custom devices	
Documents	Notifications	
Run as administrator (restricted)	Location	
Microphone	🗌 Camera	
□ Radios		
Energedelisionel energicitation onlinety Advanta		
For additional capabilities, edit the Manif	est. See App capability declarations online.	
Save	Cancel	
Jave	Cancer	

• If the list does not contain the necessary capability, edit the package manifest to specify this capability manually. For information, see <u>App capability declarations</u>. For editing the manifest, see section 3.8.7.9





3.8.7.5 Set Supported Platforms

Set the supported platforms (target device families) on which, the UWP package could be run. For information, see <u>Use the MSIX SDK to build a package for cross-platform use</u>.

• Go to the Package -> UWP tab.

Edit package - PKG-190430-144511.mgp				– 🗆 X
≡ MENU Package Files Short	cuts\Apps Registry System resources			
	MSI MST U	JWP APPV THI	INAPP	
Display properties		UWP package optic	ons	
Package logo (50x50)		Package format		
`		MSIX		~
Browse		Application root folder		
Display name	Publisher display name	C:\Program Files (x86)\Mozil	lla Firefox	~
Firefox	Mozilla	Interrupt building the pack	kage for manual editing the mani	fest
Description		Project folder		
Mozilia Firetox		C:\Users\pace\Documents\/	MSI Generator\Packages\PKG-1	Browse Go to
Capabilities	Signature	Package identity		
Declare access to the protected user resources	 Sign the generated package/bundle. 	Name	Publisher	
Edit capabilities	Edit signature	MozillaFirefox	CN=Mozilla	1
Dependencies	Architectures & Bundle	Version		
	C - + + + i	63.0.3.0		
supported platforms.	bundle options.	BUILD LOG		Open log
Edit dependencies	Edit architectures	Type Elapsed	Step	
Luit dependencies	Loit architectores			
App Installer				
Generate the App Installer file to distribute and update your application with a single click.	t			
Edit appinstaller		Elapsed time 00:00	Review the UWP application I	limitations 🗳 Build UWP

• Click Edit dependencies.

© Edit package - PKG-190430-144511.mgp									-		×
≡ MENU Package Files Short	cuts\Apps Registry	System resources									
	MSI	MST	UWP	APPV		THINAPP					
Display properties			UN	P packag	ge op	otions					
Package logo (50x50)			Packa MSI	ge format (~
Browse			Appli	ation root fold	er						
Display name	Publisher display name		C:\P	rogram Files	(x86)\M	ozilla Firefox					~
Description	Mozilia		□ In Proie	terrupt buildi t folder	ng the p	oackage for ma	anual editing the mani	fest			
Mozilla Firefox			C:\(Jsers\pace\D	ocumen	nts\MSI Genera	tor\Packages\PKG-1	Browse		Go to	
Capabilities	Signature		Pac	kage ide	ntity						
Declare access to the protected user resources	 Sign the generated pace 	kage/bundle.	Name				Publisher				
Edit capabilities	Edit signature		Mo	zillaFirefox			CN=Mozilla	3			
Dependencies	Architectures &	Bundle	Versio	n).3.0							
Specify package type (main/modification) and supported platforms	Set the compatible proc	cessor architectures an	d	BUILD LOG					(Open lo	g
supported platforms.	bundle options.		Туре	Elaps	ed	Step					
Edit dependencies	Edit architectures										
App Installer											
Generate the App Installer file to distribute and update your application with a single click.	ł										
Edit appinstaller			Elaps 00:00	ed time		Rev	view the UWP application	limitations	🐡 Βι	uild UW	/P



Select the necessary supported platforms and click Save.
 NOTE Only on Windows 10 platforms, the package will only be deployed on OS versions greater than the MinVersion.

Dependencies			×
Package type			
 Main package Modification package for Package name (identity) 			
package.name			
Publisher			
CN=publisher			
Read from file			
Supported platforms All platforms Only the following platform Windows 10 (Desktop) Min version 	ns	Max version tested	
10.0.14393.0	~	10.0.17763.0	~
 Windows 8/8.1 Windows 7 Linux MacOS iOS Android Web 			
	Save	Cancel	



3.8.7.6 Manage Package Architectures

Select the processor architectures (x86, x64, ARM) on which you want to run your UWP package. For each selected processor architecture, a separate package will be created. For information, see <u>App</u> <u>package architectures</u>.

• Go to the Package -> UWP tab.

Edit package - PKG-190430-144511.mgp										-		×
≡ MENU Package Files Shortco	uts\Apps Registry	System resources										
	MSI	MST	UWP	APPV		THINAPP)					
Display properties			UV	/P packa	ige o	options						
Package logo (50x50)			Packa	ge format								
Browse			MSI	<								
Display name	Publisher display name		Appli	cation root fol	der							
Firefox	Mozilla		C:\P	rogram Files	(x86)	Mozilla Firet	tox					_
Description			_ ∐ In	terrupt build	ling th	ne package fo	or manual editir	ng the mani	fest			
Mozilla Firefox			C:\\	lsers\pace\[Docum	nents\MSI Ge	enerator\Packad	aes\PKG-1	Browse		Go to	
Capabilities	Signature		Pac	kage ide	entit	ty						
Declare access to the protected user resources.	sign the generated pa	ckage/bundle.	Name	•			Pi	ublisher				
Edit capabilities	Edit signature		Mo	zillaFirefox				CN=Mozilla	9			
Dependencies	Architectures 8	k Bundle	Versio	on D 2 0								
Specify package type (main/modification) and	Set the compatible pro	cessor architectures and	d									
supported platforms.	bundle options.		Tran	BUILD LOG		Char					Open lo	bg
Edit dependencies	Edit architectures		туре	e ciap	sea	Step						
App Installer Generate the App Installer file to distribute and update your application with a single click.												
Edit appinstaller			Elaps 00:00	ed time			Review the UWF	P application	limitations	¢	Build UV	VP

• Click Edit architectures.

😂 Edit package - PKG-190430-144511.mgp										-		×
	cuts\Apps Registry	System resources	;									
	MSI	MST	UWP	APPV	(THINAPP	1					
Display properties			UV	/P packa	age (options						
Package logo (50x50)			Packa	ige format								
Browse			MSI	X								~
Display name	Publisher display name		Appli C:\P	rooram File	older s (x86)	\Mozilla Firet	fox					~
Firefox	Mozilla			terrupt buil	dina th	ne package fr	or manual edit	ing the mani	fest			
Description			Proje	ct folder								
Mozilla Firetox			C:\	Jsers\pace\	Docum	nents\MSI Ge	enerator\Packa	iges\PKG-1	Browse		Go to.	
Capabilities	Signature		Pad	kage id	entit	ty						
Declare access to the protected user resources.	Sign the generated pack	age/bundle.	Name	2				Publisher				
Edit capabilities	Edit signature		Мо	zillaFirefox				CN=Mozilla	I			
Dependencies	Architectures &	Bundle	Versi	on								
Specify package type (main/modification) and	Set the compatible proce	essor architectures an	63. d	0.3.0								
supported platforms.	bundle options.			BUILD LOG	6						Open lo	g
Edit dependencies	Edit architectures]	Тур	e Elaj	psed	Step						
Ann Installer		-										
App installer												
update your application with a single click.												
Edit appinstaller			Elaps 00:00	ed time)			Review the UV	VP application	limitations	ψB	uild UV	VP

• Select the necessary processor architectures and click Save.

Architectures & Bundle				
Compatible architectures				
Generate packages for the following architectures:				
✓ neutral				
□ x86				
□ x64				
🗆 arm				
🗌 arm64				
For more details, see App package architectures online.				
Bundle				
\Box Combine the generated package(s) into one bundle				
Save Cancel				

3.8.7.7 Create Bundle

Combine the generated UWP packages into one single bundle. By bundling packages of different processor architectures into one entity, only the bundle needs to be uploaded to the Store or another distribution location. The Windows 10 deployment platform is aware of the bundle package type and will only download the files that are applicable for your device's architecture. Keep in mind that if you decide to distribute a bundle for a particular app, you cannot revert back to distributing just an UWP package.

o to the Package -	> UWP tab.						
Edit package - PKG-190430-144511.mgp						- 🗆	
E MENU Package Files	Shortcuts\Apps Registry System resourc	es					
	MSI MST	UWP APPV	THINA	PP			
Display properties		UWP packag	e options	s			
ackage logo (50x50)		Package format					
`		MSIX					
Browse		Application root folde	r				
isplay name	Publisher display name	C:\Program Files (;	(86)\Mozilla Fi	irefox			
FIRETOX	Mozilia	Interrupt buildin	g the package	e for manual editing the mani	ifest		
escription		Project folder					
		C:\Users\pace\Do	cuments\MSI	Generator\Packages\PKG-1	Browse	Go to).
Capabilities	Signature	De alas estadas					
eclare access to the protected user reso	purces. Sign the generated package/bundle.	Раскаде іdeі	itity				
		Name		Publisher			
Edit capabilities	Edit signature	MozillaFirefox		CN=Mozilla	9		
Dependencies	Architectures & Bundle	Version					
nerify package type (main/modification) and Set the compatible processor architectures	63.0.3.0					
upported platforms.	bundle options.	BUILD LOG				Open I	k
Edit dependencies	Edit architectures	Type Elapse	d Ste	ep			
App Installer							
enerate the App Installer file to distribu	te and						
pdate your application with a single clic	k.						
Edit appinstaller		Elapsed time		Review the LIWP application	limitations	9 Build U	v
•

lick Edit architectures.									
Edit package - PKG-190430-144511.mgp							-		_
■ MENU Package Files Short	tcuts\Apps Registry System resources								
	MSI MST U	WP	APPV	THINAPP					
Display properties		UWP p	ackage op	otions					
Package logo (50x50)		Package form	mat						
		MSIX							
Browse		Application (root folder						
isplay name	Publisher display name	C:\Program	m Files (x86)\M	ozilla Firefox					
Firefox	Mozilla	🗆 Interrup	t building the	package for manual	editing the manifes	t			
escription		Project folde	er						
Mozilia Firetox		C:\Users\	pace\Documer	nts\MSI Generator\P	ackages\PKG-1	Browse	0	Go to	
Capabilities	Signature	Packag	e identity						
Declare access to the protected user resource:	s. Sign the generated package/bundle.		charity						
Edit canabilities	Edit signature	: Name			Publisher				
Lon capabilities	Lorcalginatore	WOZINAFI	elox		CIN=IVIOZIIIA				
Dependencies	Architectures & Bundle	63.0.3.0							
pecify package type (main/modification) and	Set the compatible processor architectures and	03.0.3.0					0		
upported platforms.	bundle options.	BUILL) LOG	<i>c</i> 1			0	penic	
Edit dependencies	Edit architectures	туре	ciapsed	step					
App Installer									
enerate the App Installer file to distribute an pdate your application with a single click.	d								
		Elapsed tim	e						ſ
coit appinstaller		00:00		Review th	e UWP application limit	tations C	🤉 Bui	Id UN	į

• Select the Combine the generated package(s) into one bundle option and click Save.

Architectures & Bundle	×
Compatible architectures	
Generate packages for the following architectures:	
✓ neutral	
□ x86	
□ x64	
□ arm	
🗆 arm64	
For more details, see App package architectures online.	
Bundle	
\Box Combine the generated package(s) into one bundle	
Save Cancel	



3.8.7.8 Sign Package/Bundle

Sign the generated package or bundle with a certificate for the testing purposes or distribution. Signing an app package provides the user with verification that the app's data have not been modified after it was signed while also confirming the identity of the user or company that signed it.

•	Go	to	the	Package	->	UWP	tab.
---	----	----	-----	---------	----	-----	------

Edit package - PKG-190430-144511.mgp								- C) X
≡ MENU Package Files Shorto	uts\Apps Reg	istry System resources	5						
	M	SI MST	UWP	APPV	THINAPP				
Display properties			UW	P package	options				
Package logo (50x50)			Packag	ge format					~
Browse			Applic	ation root folder					
Display name	Publisher display na	me	C:\Pr	ogram Files (x8	6)\Mozilla Firefo:	x			~
Firefox	Mozilla			errunt building	the package for	manual editing the man	nifest		
Description			Projec	t folder	and package for	manaar calling are man			
Mozilla Firefox			C:\U	lsers\pace\Doci	uments\MSI Gen	erator\Packages\PKG-1	Browse	Go	o to
Capabilities	Signature		Pac	kage ident	tity				
Declare access to the protected user resources.	Sign the generate	ed package/bundle.	Name		-	Publisher			
Edit capabilities	Edit signatu	ire	Moz	illaFirefox		CN=Mozill	a		
Demondencies	A	- O. D II -	Versio	n					
Dependencies	Architecture	es & bundle	63.0	.3.0					
Specify package type (main/modification) and supported platforms.	Set the compatib bundle options.	le processor architectures an	nd	BUILD LOG				Ope	en log
Edit dependencies	E elit e seleite et		Туре	Elapsed	Step				
Edit dependencies	Edit architect	ures							
App Installer									
Generate the App Installer file to distribute and update your application with a single click.									
Edit appinstaller			Elapse 00:00	ed time		Review the UWP application	limitations	🔅 Build	UWP

• Click Edit signature.

Edit package - PKG-190430-144511.mgp									- 0	×
	:uts\Apps Registry	System resources	;							
	MSI	MST	UWP	APPV	THI	NAPP				
Display properties			UW	P package	optic	ons				
Package logo (50x50)			Packag	e format						
Browse			Applic	ation root folder						
Display name	Publisher display name		C:\Pr	ogram Files (x8	6)\Mozill	a Firefox				~
Firefox	Mozilla		🗆 Int	errupt building	the pack	age for manual e	diting the manif	est		
Description			Projec	folder		5	5			
Mozilia Firetox			C:\U	sers\pace\Docu	uments\/	/ISI Generator\Pac	kages\PKG-1	Browse	Go t	o
Capabilities	Signature		Pac	kage ident	tity					
Declare access to the protected user resources.	Sign the generated pa	ackage/bundle.	Name				Publisher			
Edit capabilities	Edit signature		Moz	illaFirefox			CN=Mozilla			
Dependencies	Architectures	& Bundle	Versio	ı						
	Architectures of		63.0	.3.0						
supported platforms.	bundle options.	ocessor architectures an		BUILD LOG					Open	log
Edit dependencies	Edit architectures		Туре	Elapsed		Step				
App Installer										
Generate the App Installer file to distribute and update your application with a single click.										
Edit appinstaller			Elapse 00:00	d time		Review the	UWP application li	mitations	🔅 Build U	IWP

- Select the necessary signature option and click Save. Signature × Signature settings Do not sign the package/bundle O Sign the package/bundle with my certificate (for distribution) Certificate file (.pfx) Browse.. Certificate password 0 O Generate a certificate and sign the package/bundle with it (for testing purposes) Certificate password 0 How to install the generated certificate... Cancel Save
- To install the generated UWP package, (1) enable the <u>Developer Mode or Sideloading apps</u> on the target system and (2) ensure that the certificate, used for signing, is trusted on that system. If you are using the self-signed certificate, install it manually to the Trusted People or Trusted Publishers local machine certificate store. By adding a certificate to local machine certificate stores, you affect the certificate trust of all users on the computer. It is recommended that you remove those certificates when they are no longer necessary to prevent them from being used to compromise system trust.



3.8.7.9 Edit Manifest Manually

Edit the package manifest file(s) manually to modify existing or add new specific package settings.

• Go to the Package -> UWP tab.

Edit package - PKG-190430-144511.mgp									- 0	>
■ MENU Package Files Shorte	uts\Apps Registry	System resources								
	MSI	MST	UWP	APPV	TH	IINAPP				
Display properties			UW	P packa	ge opti	ons				
Package logo (50x50)			Packag	e format						
Browse			IMPIX							
Display name	Publisher display name			ntion root told	er (x86)\Mozi	illa Firefox				_
Firefox	Mozilla			revet build	na tha nac	kage for manual	adition the mani	fact		
Description			- Project	folder	ng trie pao	.kage for manual	ealang the mani	iest		
Mozilla Firefox			C:\U	sers\pace\D	ocuments\	MSI Generator\Pa	ackages\PKG-1	Browse	Go to	
Capabilities	Signature		Pack	kage ide	ntity					
Declare access to the protected user resources.	Sign the generated pack	age/bundle.	Name	5			Publisher			
Edit capabilities	Edit signature		Mozi	llaFirefox			CN=Mozilla	1		
			Version							
Jependencies	Architectures &	Bundle	63.0.	3.0						
specify package type (main/modification) and supported platforms	Set the compatible proce bundle options	essor architectures an	nd E						Open lo	g
			Туре	Elaps	ed	Step				
Eait dependencies	Edit architectures									
App Installer										
 Generate the App Installer file to distribute and update your application with a single click.										
Edit appinstaller			Elapse 00:00	d time		Review the	e UWP application	limitations	þ Build UW	/P

• Tick the Interrupt building the package for manual editing the manifest option and click Build UWP.

Edit package - PKG-190430-144511.mgp								-	· 🛛	×
	cuts\Apps Registry	System resources								
	MSI	MST L	JWP APF	V	THIN	JAPP				
Display properties			UWP pac	(age (optio	ns				
Package logo (50x50)			Package format MSIX							~
Display name	Publisher display name		Application root C:\Program F	folder les (x86)	\Mozilla	a Firefox				~
Firefox Description	Mozilla		Interrupt bu	uilding th	ne packa	age for manual e	diting the manifest			
Mozilla Firefox			Project folder C:\Users\pac	≥\Docun	nents\M	ISI Generator\Pac	:kages\PKG-1	rowse	Go t	
Capabilities	Signature		Package i	dentit	ty					
Declare access to the protected user resources	. Sign the generated packag	ge/bundle.	Name				Publisher			
Edit capabilities	Edit signature		MozillaFirefo:	1			CN=Mozilla			
Dependencies	Architectures & B	undle	Version 63.0.3.0							
Specify package type (main/modification) and supported platforms.	Set the compatible process bundle options.	sor architectures and	BUILD LC	G					Open	log
Edit dependencies	Edit architectures		Туре Е	apsed		Step				
App Installer										
update your application with a single click.	2									
Edit appinstaller			Elapsed time 00:00			Review the	UWP application limitati	ons 🗘	Build U	JWP

• In the opened window, click **Go to**... to locate the prepared manifest files on the file system. Edit them according to your needs using any text editor, save and close their folder. Afterwards, tick the I have finished editing and closed the manifest file(s) option and click

inue. Ianifest	×
ckage manifest	
it the created package manifest files (see Manifest schema online) and then contir	iue.
ifest file(s) location	

• MSI Generator validates the edited manifest files against the schemas and displays all errors in the window. You can ignore them and continue or close the window and fix the manifest files.

۲	Msi Generator	×
	Manifest validation errors:	
	Manifest_x86.xml - The 'ProcessorArchitecture' attribute is invalid - The value 'xsss86' is invalid according to its dataty	
	▲	
	Log file	
	Ignore and continue Cancel	

3.8.7.10 Manage Apps and Visual Assets

Choose a scenario that better suits your needs:

- Exclude App, described in section 3.8.7.10.1 Exclude the unnecessary app from the project.
- Include Excluded App, described in section 3.8.7.10.2 Include, the previously excluded app, back to the project.
- Add App, described in section 3.8.7.10.3 Add a new app to the project.
- Set App Logos, described in section 3.8.7.10.4 Control appearance settings of the app such as logos, name, background color.
- Delete App, described in section 3.8.7.10.5 Delete the unnecessary app from the project.



3.8.7.10.1 Exclude App

Exclude the unnecessary app from the project.

• Go to the Shortcuts\Apps -> UWP tab.

Edit package	e - PKG-190430-1	144511.mgp	1							- 0	×
≡ MENU	Package	Files	Shortcuts\Apps	Registry	Syste	em resources					
					N	UWP	APPV				
Application Firefox						Application Display name Firefox Description Firefox Executable C:\Program Files (x8 Visual assets Background color Transparent Short name	16)∖Mozilla Firefox∖firefo	X.exe		Brov V Pick c	vse
						App list logo (44x44) S	Small logo (71x71) <no logo=""></no>	Medium logo (150x150)	Wide logo (310x150) <no logo=""></no>	Large logo (310: <no log<="" td=""><td>x310) O></td></no>	x310) O>
Add	Exclud	de				Browse Show name on	Browse	Browse	Browse	Browse	

• Select Exclude from the context menu of an item, which you want to exclude from the project. Note that the excluded items are highlighted in yellow and crossed out.

Edit package	e - PKG-190430-144511.mgp		- U >
	Package Files Shortcuts\Apps R	gistry System resources	
		MSI UWP APPV	
Application Firefox	New application Exclude Del Delete Shift+Del	Application Display name Firefox Description Firefox Executable C:\Program Files (x86)\Mozilla Firefox\firefox.exe Visual assets Background color Transparent Short name	Browse Pick color
		App list logo (44x44) Small logo (71x71) Medium logo (150x150) Wide logo (310x150) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) Image: Small logo (71x71) <t< td=""><td>Large logo (310x310)</td></t<>	Large logo (310x310)
Add	Exclude	Browse Browse Browse Browse	Browse



3.8.7.10.2 Include Excluded App

Include, the previously excluded app, back to the project.

• Go to the Shortcuts\Apps -> UWP tab.

	- PKG-190450-14	++511.mgp								
MENU	Package	Files	Shortcuts\Apps	Registry	Syste	m resources				
					N	ISI UWP	APPV			
plication efox						Application Display name Firefox Description Firefox Executable C:\Program Files (x8 Visual assets Background color Transparent Short name	36)\Mozilla Firefox\firef)X. exe		 Browse Pick colo
						App list logo (44x44)	Small logo (71x71) <no logo=""></no>	Medium logo (150x150)	Wide logo (310x150) <no logo=""></no>	Large logo (310x31 <no logo=""></no>
						Browse	Browse	Browse	Browse	Browse

• Select **Include** from the context menu of an item, which you want to include back to the project. Note that the excluded items are highlighted in yellow and crossed out.

Edit package	e - PKG-190430-144511	.mgp						- 🗆 X
≡ menu	Package File	es Shortcuts\Apps	Registry Sys	stem resources				
				MSI UWP	APPV			
Application Firefox	New application Include Delete	Ins Shift+Del		Application Display name Firefox Description Firefox Executable C:\Program Files (x8 Visual assets Background color Transparent Short name	16)\Mozilla Firefox\firefo	x.exe		Browse Pick color
				App list logo (44x44)	Small logo (71x71) <no logo=""></no>	Medium logo (150x150)	Wide logo (310x150) <no logo=""></no>	Large logo (310x310)
Add	Delete			Browse Show name on Medium logo	Browse	Browse	Browse	Browse



3.8.7.10.3 Add App

Add a new app to the project.

• Go to the Shortcuts\Apps -> UWP tab.

Edit package	- PKG-190430-1	44511.mgp								-		×
≡ menu	Package	Files	Shortcuts\Apps	Registry	Syste	em resources						
					١	UWP	APPV					
Application Firefox						Application Display name Firefox Description Firefox Executable C:\Program Files (x8 Visual assets Background color Transparent Short name	36)\Mozilla Firefox\firefo	DX.exe			Browse Pick cole	2
						App list logo (44x44)	Small logo (71x71) <no logo=""></no>	Medium logo (150x150)	Wide logo (310x150) <no logo=""></no>	Large	<no logo=""></no>	0)
Add	Exclud	le				Show name on	Browse	Browse	Browse	Br	rowse	

• Select New application from the context menu.

Edit package - PKG-190430-144511.mgp			– 🗆 ×
≡ MENU Package Files S	hortcuts\Apps Registry	System resources	
■ MENU Package Files S Application	hortcuts\Apps Registry	System resources MSI UWP APPV Application Display name Firefox Description Firefox Executable C:\Program Files (x86)\Mozilla Firefox\firefox.exe Visual assets Background color Transparent Short name App list logo (44x44) Small logo (71x71) Medium logo (150x150) Wide logo (310x150)	Browse Pick color Large logo (310x310)
		s <no logo=""> <no logo=""></no></no>	<no logo=""></no>
Add Exclude		Browse Browse Browse Show name on	Browse





• Select an application executable file and click **Select**.

Select the of Tolder		_	
Name			-
🖃 🔤 C:			
🖃 📄 Program File	s (x86)		
🖃 📕 Mozilla I	irefox		
🕀 🖿 brow	ser		
🕀 🖿 defa	ults		
font	;		
🕀 🖿 gmp	-clearkey		
🗉 🛄 unin	stall		
Crash	nreporter.exe		
📄 firefo	ox.exe		
📄 mair	tenanceservice.exe		
📄 mair	tenanceservice_installer.exe		
i mini	dump-analyzer.exe		
ping	sender.exe		
jplug	in-container.exe		
📄 plug	in-hang-ui.exe		
📄 upda	iter.exe		
Mozilla Moz	Vaintenance Service		
ProgramDat	3		4
V	Select Cancel		

3.8.7.10.4 Set App Logos

Control appearance settings of the app such as logos, name, background color.

• Go to the Shortcuts\Apps -> UWP tab and select the necessary app from the list.

Edit package - PKG-190430-144511.mgp		– 🗆 ×
≡ MENU Package Files Shortcuts\Apps Registry S	System resources	
	MSI UWP APPV	
Application	Application	
Firefox	Display name	
	FIRETOX	
	Description	
	Firetox	
	Executable	Province
	C.(Program Files (xoo)(Mozilia Fileiox(lireiox.exe	browse
	Visual assets	
	Background color	
	Transparent	 Pick color
	Short name	
	App list logo (44x44) Small logo (71x71) Medium logo (150x150) Wide logo (310x150)	Large logo (310x310)
	5 5	
	Ino logo>	<no logo=""></no>
	Browse Browse Browse	Browse
	Show name on	
Add Exclude	L Medium logo Li wide logo Li Large logo	

• Set the necessary application logos clicking **Browse**. If needed, update other application settings such as display name, description, background color and the like using the Details



pane.		
© Edit package - PKG-190430-144511.mgp		- D ×
≡ MENU Package Files Shortcuts\Apps Registry	stem resources	
	MSI UWP APPV	
Application	Application	
Firefox	Display name	
	Firefox	
	Description	
	Firefox	
	Executable	Beruna
	C:\Program Files (x86)\Wozilia Firefox\firefox.exe	browse
	Visual assets	
	Background color	
	Transparent	 Pick color
	Short name	
	App list logo (44x44) Small logo (71x71) Medium logo (1	50x150) Wide logo (310x150) Large logo (310x310)
	5	
	🍯 <no logo=""> 🍯</no>	<no logo=""> <no logo=""></no></no>
	Browse Browse Browse	Browse Browse
Add Exclude	Show name on Show name on Medium logo Wide logo Large logo	

3.8.7.10.5 Delete App

Delete the unnecessary app from the project.

• Go to the Shortcuts\Apps -> UWP tab.

MENU Package Files Shortcuts\Apps Regis	System resources	
	MSI UWP APPV	
pplication	Application	
irefox	Display name	
	Firetox	
	Description	
	riteiox	
	Executable	Browse
		5104132
	Visual assets	
	Background color	
	Transparent	 Pick color
	Short name	
	App list logo (44x44) Small logo (71x71) Medium logo (150x150) Wide logo (310x	150) Large logo (310x310)
	ঠ ঠ	
	Ino logo>	>> <no logo=""></no>
	Browse Browse Browse	Browse
	Show name on	

• As the **Delete** is available only for the excluded resources, first exclude an item, which you want to delete, selecting **Exclude** from the context menu. Note that the excluded items are



highlighted in yellow and crossed out.

Edit package	۔ e - PKG-190430-1	/ 144511.mgp)								- 🗆 X
≡ menu	Package	Files	Shortcuts\Apps	Registry	Syste	m resources					
Application Firefox	New applic Exclude Delete	cation Del Shi	I ft+Del		N	Application Display name Firefox Description Firefox Executable	APPV				
						C:(Program Files (xz Visual assets Background color Transparent Short name	6)(Mozilla Firetox(tireto	x.exe		~	Pick color
						App list logo (44x44)	Small logo (71x71) <no logo=""></no>	Medium logo (150x150)	Wide logo (310x150) <no logo=""></no>	Large	<no logo=""></no>
Add	Exclue	de				Browse Show name on Medium logo	Browse	Browse	Browse	I	Browse

• Select **Delete** from the context menu of the excluded item, which you want to delete from the project.

© Edit package - PKG-190430-144511.mgp	- C	X
≡ MENU Package Files Shortcuts\Apps	jistry System resources	
	MSI UWP APPV	
Application	Application	
Firefox New application	Display name Firefox	
Include Ins	Description	
Delete Shift+Del	Firefox	
	Executable	
	C:\Program Files (x86)\Mozilla Firefox\firefox.exe Brow	wse
	Visual assets	
	Background color	
	Transparent V Pick	color
	• Snort name	
	App list logo (44x44) Small logo (71x71) Medium logo (150x150) Wide logo (310x150) Large logo (310	0x310)
	5 5	
		qo>
	Browse Browse Browse Browse	
	Show name on	
Add Delete		



3.8.7.11 Generate AppInstaller

Generate the AppInstaller file for the non-Store distribution and automatic update of your UWP package. For information, see <u>Install UWP apps with App Installer</u>.

• <u>Go to the Package -> UWP tab.</u>

Edit package - PKG-190430-144511.mgp								-	
≡ MENU Package Files Shorte	cuts\Apps Registry	System resources							
	MSI	MST	UWP A	VPPV	THINAPP				
Display properties			UWP pa	ackage o	options				
Package logo (50x50)			Package form	at					
Browro			MSIX						~
Diowse	Dublishes disalau asso		Application re	oot folder					
Firefox	Mozilla		C:\Progran	n Files (x86)	Mozilla Firefox				~
Description	1002110		Interrupt	building th	e package for mar	nual editing the mani	ifest		
Mozilla Firefox			Project folder						
			C:\Users\p	ace\Docum	ients\MSI Generat	or\Packages\PKG-1	Browse		Go to
Capabilities	Signature		Package	e identit	V				
Declare access to the protected user resources	. Sign the generated pack	kage/bundle.		- racina	· y				
Edit capabilities	Edit signature		: Name MozillaFire	fox		Publisher	2		
			Version			CITENOZIN	,		
Dependencies	Architectures &	Bundle	63.0.3.0						
Specify package type (main/modification) and supported platforms	Set the compatible proc bundle options	the compatible processor architectures and BUILD LOG)pen log
			Туре	Elapsed	Step				
Edit dependencies	Edit architectures								
App Installer									
Generate the App Installer file to distribute and update your application with a single click.	l								
Edit appinstaller			Elapsed time 00:00		Revie	ew the UWP application	limitations	🏟 Bu	ild UWP

• Click Edit appinstaller.

Edit package - PKG-190430-144511.mgp									-		×
	uts\Apps Registry	System resources	5								
	MSI	MST	UWP	APPV		THINAPP					
Display properties			UW	P packag	je op	otions					
Package logo (50x50)			Packa	ge format							
Browse			(MSI)	(`
Display name	Publisher display name		Applic	ation root folde	er						
Firefox	Mozilla		C:\Pi	rogram Files (:	x86)\M	lozilla Firefox					_
Description			🗆 Int	terrupt buildir	ng the I	package for manual	editing the mani	fest			
Mozilla Firefox			Projec	t folder						. .	
			C:\U	Jsers\pace\Do	ocumer	nts\MSI Generator\Pa	ackages\PNG-1	browse		GO to.	
Capabilities	Signature		Pac	kade idei	ntitv						
Declare access to the protected user resources.	Sign the generated pac	kage/bundle.	. Name	5			Dublisher				
Edit capabilities	Edit signature		Moz	zillaFirefox			CN=Mozilla	3			
			Versio	n							
Dependencies	Architectures &	u Bundle	63.0	.3.0							
Specify package type (main/modification) and	Set the compatible pro	cessor architectures an	d	BUILD LOG					(Open k	bg
supported platforms.	bundle options.		Туре	Elapse	d	Step					
Edit dependencies	Edit architectures										
App Installer											
Generate the App Installer file to distribute and											
update your application with a single click.											
Edit appinstaller			Elaps	ed time		Devices the	LIMP E	ter besterne	r ^e n Bi	uild UV	/P
			00:00			Review the	e UV/P application	iimitations	φ υ	ind OV	

• Tick the Generate the appinstaller file option, specify a file version (increase version for each new file), URL where this AppInstaller file will be published. Also, specify the generated package/bundle as main or as optional, and the URL, where this package/bundle will be

NOTE The generated AppInstaller file will work only if you launch it from the specified URL	
For manual editing, see App Installer file (.appinstaller) schema reference.	
available for download. Select the desired package update settings and click Save.	

App Installer	×
Generate the appinstaller file	
NOTE The App Installer file allows installing a set of defined packages with a single click and updating them automatically when a newer App Installer file is published.	
App Installer properties	
File version	
1.0.0.0	
File publish URL (without file name)	
https://mywebsite/my_app/	
Package/bundle properties	
Define the generated package(s)/bundle as:	
Main Optional	
Download URL (without file name)	_
https://mywebsite/my_app/	
NOTE In case defining the generated package(s)/bundle as optional, update the <mainpackage> section in the generated App Installer file manually to specify an actual identity information of your main package.</mainpackage>	
Update settings	
Check for updates on the app launch	
In the background of the launched app every	
Every 12 hours	,
For additional settings, see App Installer file example online.	
Save Cancel	

- To install the generated UWP package with the AppInstaller file, (1) enable the <u>Developer</u> <u>Mode or Sideloading apps</u> on the target system and (2) ensure that the certificate, used for signing, is trusted on that system. If you are using the self signed certificate, install it manually to the Trusted People or Trusted Publishers local machine certificate store. By adding a certificate to local machine certificate stores, you affect the certificate trust of all users on the computer. It is recommended that you remove those certificates when they are no longer necessary to prevent them from being used to compromise system trust.
- For troubleshooting, see <u>Troubleshoot installation issues with the App Installer file</u>.



3.8.8 APPV Settings

Choose a scenario that better suits your needs:

- Set Application Details, described in section 3.8.8.1 Set the application details, such as app name, version and publisher of the APPV package.
- Manage Package Settings, described in section 3.8.8.2 Select the package settings such as APPV version, Primary virtual application directory (PVAD), target OS, streaming and some advanced options.
- Set Folder Virtualization Level, described in section 3.8.8.3 Change the default APPV virtualization (isolation) level for a folder.
- Set Registry Virtualization Level, described in section 3.8.8.4 Change the default APPV virtualization (isolation) level for a registry key.
- Manage Apps, FTA, Shortcuts, described in section 3.8.8.5 Include/exclude captured apps, add new ones, manage their shortcuts and FTA.

3.8.8.1 Set Application Details

Set the application details, such as app name, version and publisher of the APPV package.

Go to the Package -> APPV tab.							
Edit package - PKG-190430-144511.mgp						- 🗆	×
■ MENU Package Files Shortcuts\Apps Registry System	tem resources						
MSI	MST UV	VP /	APPV	THINAPP			
Application Details		App-V	Package	e Options			
Application name		App-V versio	'n				
Firefox		App-V 5.2	(1607) pac	age format version			~
Version		Package nam	ie				
63.0.3		PKG-19043	30-144511				
Publisher		Package fold	er				
Mozilla		C:\Users\p	pace\Docu	nents\MSI Generator\Package	es\PKG-1 Brow	se Go ta	o
App-V Settings Primary virtual application directory (PVAD)		Description					
Do not use PVAD (default)	~	BUILD	106			Open	log
Streaming options		Туре	Elapsed	Step			-
□ Force application to be fully downloaded before launching.							
Target OS							
 Allow this package to be run on any operating system 							
 Allow this package to be run only on the selected operating systems 							
Select OS							
Advanced options							
□ Allow all named objects to interact with the local system							
□ Allow all COM objects to interact with the local system							
Allow virtual application full write permissions to the virtual file system							
L Enable Browser Helper Objects		Elapsed time 00:00	2			🔅 Build Al	PPV





• Set new application name, version and publisher of the APPV package in the Application Details section.

Edit package - PKG-190430-144511.mgp	- 0
	ources
MSI MST	UWP APPV THINAPP
Application Details	App-V Package Options
Application name	App-V version
Firefox	App-V 5.2 (1607) package format version
Version	Package name
63.0.3	PKG-190430-144511
Publisher	Package folder
Mozilla	C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Browse Go to
Primary virtual application directory (PVAD) Do not use PVAD (default)	V BUILD LOG Open log
Do not use PVAD (default)	BUILD LOG Open log
Streaming options	Type Elapsed Step
Force application to be fully downloaded before launching.	
Allow this package to be run on any operating system Allow this package to be run only on the selected operating systems Select OS	
Advanced options	
Allow all named objects to interact with the local system	
□ Allow all COM objects to interact with the local system	
Allow virtual application full write permissions to the virtual file system Scalar Resource Unless Objects	
Chable prowser helper Objects	Elapsed time 00:00 & Build APPV

3.8.8.2 Manage Package Settings

Select the package settings such as APPV version, Primary virtual application directory (PVAD), target OS, streaming and some advanced options.

• Go to the Package -> APPV tab.

Edit package	- PKG-190430-	144511.m	gp									-		×
	Package	Files	Shortcuts\Apps	Registry	System resource	s								
				MSI	MST	UWP	ŀ	PPV	Tł	HINAPP				
Applicatio	on Detail	s					App-V l	Packag	je Oj	ptions				
Application name	e						App-V versio	1						
Firefox							App-V 5.2	(1607) pa	ckage	format version				``
Version							Package nam	e						
63.0.3							PKG-19043	80-144511						
Publisher							Package fold	21						
Mozilla							C:\Users\p	ace\Docu	uments	s\MSI Generator\Packages\PKG-1	Browse	(Go to	
Primary virtual ap Do not use PV	ttings pplication direc /AD (default)	tory (PVAI	D)			~	BUILD	LOG				0	pen log	9
Streaming optior	15						Туре	Elapsed		Step				
Force applic	cation to be f	fully dowr	nloaded before launchi	ng.										
● Allow this p ○ Allow this p	ackage to be ackage to be	run on a run only	any operating system on the selected operat	ting systems										
Select OS	5													
Advanced option	15													
Allow all na	med objects	to intera	ct with the local system											
Allow all CC	OM objects to	interact	with the local system											
□ Allow virtua	al application	full write	permissions to the virt	ual file system										
L Enable Brov	wser Helper C	Dbjects					Elapsed time 00:00					🎲 Buil	d APP\	V

≡ MENU Package Files Shortcuts\Apps Registry S	ystem resources							
MSI	MST U	JWP	A	PPV	THINAPP			
Application Details		Ар	p-V P	ackage	Options			
Application name		App-	V version					
Firefox		App	o-V 5.2 (1	1607) pack	age format version			~
Version		Pack	age name					
63.0.3		PK	G-190430)-144511				
Publisher		Pack	age folder					
Mozilla		C:\	Users\pa	ace\Docun	nents\MSI Generator\Packa	ages\PKG-1	Browse	Go to
App-V Settings		Desc	ription					
Primary virtual application directory (PVAD)	~							
		:	BUILD	LOG				Open log
Streaming options		Тур	e	Elapsed	Step			
The set of								
 Allow this package to be run on any operating system 								
O Allow this package to be run only on the selected operating systems								
Select OS								
Advanced options								
□ Allow all named objects to interact with the local system								
□ Allow all COM objects to interact with the local system								
\square Allow virtual application full write permissions to the virtual file system								
Enable Browser Helper Objects		Elerer	cod tim -					
		00:00	o 0					🔅 Build APPV

3.8.8.3 Set Folder Virtualization Level

Change the default APPV virtualization (isolation) level for a folder.

• Go to the Files tab.

	In	cluded: 111 files (158,8	MB) V Collapse
Name	Туре	Size	State
B C	Folder		Changed
Program Files (x86)	Folder		Changed
🗷 🔚 Mozilla Firefox	Folder		Added
🖃 🔚 Mozilla Maintenance Service	Folder		Added
🗷 🛅 logs	Folder		Added
i maintenanceservice.exe	EXE	197,4 KB	Added
Uninstall.exe	EXE	87,5-KB	Added
📄 updater.ini	INI	1,2 KB	Added
🖃 🧧 ProgramData	Folder		Changed
Microsoft	Folder		Changed
🕀 🛅 Search	Folder		Changed
Windows	Folder		Changed
	Folder		Changed
🕀 🛄 wfp	Folder		Ghanged
🕀 🛅 Windows Defender	Folder		Changed
	Folder		Changed
Windows	Folder		Changed
appcompat	Folder		Changed
Prefetch	Folder		Changed
	Folder		Changed
🕀 🦳 Temp	Folder		Changed



 \times

• Select the Override local folder or Merge with local folder virtualization level from the APPV virtualization level submenu of the context menu of a folder, for which you want to change the default virtualization (isolation) mode.

NOTE If the parent folder has the **Override local folder** level, its child folders could not have the **Merge with local folder** level and this case the **APPV virtualization level** submenu will be disabled.

Edit package - PKG-190430-144511.mgp			- 🗆 ×
≡ MENU Package Files Shortcuts\Apps Registry System resources			
Files and folders	Include	ed: 111 files (158,8 MB)	Collapse all
Name	Туре	Size	State
B C:	Folder		Changed
Program Files (x86)	Folder		Changed
🗑 🔚 🔍 Mozilia Firefox	Folder		Added
🖃 🛄 Mozilla M Import files	Folder		Added
🗷 🗋 🛺 New subfolder	Folder		Added
maint	EXE	197,4 KB	Added
Unins Properties F2	EXE	87,5 KB	Added
Updat Move to folder	INI	1,2 KB	Added
ProgramData Exclude Del	Folder		Changed
Microsoft Add to exclusion filter	Folder		Changed
B Searc Delete Shift+Del	Folder		Changed
Wind APPV virtualization level ✓ Override local folder	Folder		Changed
St Merge with local folder	Folder		Changed
	Folder		Changed
Windows Defender	Folder		Changed
Users	Folder		Changed
Windows	Folder		Changed
B appcompat	Folder		Changed
Prefetch	Folder		Changed
B System32	Folder		Changed
🕃 🗋 Temp	Folder		Changed
Add A Exclude			

3.8.8.4 Set Registry Virtualization Level

Change the default APPV virtualization (isolation) level for a registry key.



• Go to the **Registry** tab.

© Edit package - PKG-190430-144511.mgp			– 🗆 ×
≡ MENU Package Files Shortcuts\Apps Registry System resources			
Registry		Included: 113 values	Collapse all
Name	Туре	Value	State
HKEY_CLASSES_ROOT	System hive		
HKEY_CURRENT_USER	System hive		
E Software	Key		Changed
🗈 🛅 Glasses	Key		Changed
Microsoft	Key		Changed
HKEY_LOCAL_MACHINE	System hive		
SOFTWARE	Key		Changed
Classes	Key		Changed
	Key		Changed
	Key		Changed
🗈 🔜 Mozilla	Key		Added
Policies	Key		Changed
RegisteredApplications	Key		Changed
WOW6432Node	Key		Changed
🖃 🔚 System	Key		Changed
EurrentControlSet	Key		Changed
	System hive		
	Key		Changed
E Software	Key		Changed
Add 🔺 Exclude			

Select the Override local key or Merge with local key virtualization level from the APPV • virtualization level submenu of the context menu of a registry key, for which you want to change the default virtualization (isolation) mode.

NOTE If the parent key has the Override local key level, its child keys could not have the Merge with local key level and this case the APPV virtualization level submenu will be disabled. Sec.

egistry ame HKEY_CLASSES_RO HKEY_CURRENT_US HKEY_CURRENT_US Software Classes H MCrosoft HKEY_LOCAL_MACK	DOT SER			Type System hive System hive	Value	Included: 113 values	Collapse a
ame HKEY_CLASSES_RO HKEY_CURRENT_US HKEY_CURRENT_US HKEY_COURRENT_US HKEY_COURCENT_US HKEY_LOCAL_MACH	DOT ISER			Type System hive System hive	Value		State
HKEY_CLASSES_RO	DOT SER CHINE			System hive System hive			
HKEY_CURRENT_U!	SER			System hive			
Software Software HKEY_LOCAL_MACH	HINE						
Glasses Glasses Microsoft HKEY_LOCAL_MACH	HINE			Key			Changed
Microsoft HKEY_LOCAL_MACH	THINE			Key			Changed
HKEY_LOCAL_MACH	THINE			Key			Changed
				System hive			
SOFTWARE				Key			Changed
🕀 🔚 Classes				Key			Changed
🕀 🔚 Clients				Key			Changed
Microsoft				Кеу			Changed
🛨 📕 Mozilla	leavest register			Key			Added
Policies	Import registry			Key			Changed
Register	Export registry			Key			Changed
	New key			Key			Changed
System	New value	_		Key			Changed
Current(Description	52		Key			Changed
HKEY_USERS	Properties	F2		System hive			
	Move to			Key			Changed
E Sottware	Exclude	Del		Key			Changed
	Add to exclusion filter	•					
	Delete	Shift+Del					
	APPV virtualization lev	el 🕨	Override local key				
			Merge with local key				



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3.8.8.5 Manage Apps, FTA, Shortcuts

Choose a scenario that better suits your needs:

- Exclude App, described in section 3.8.8.5.1 Exclude the unnecessary app from the project.
- Include Excluded App, described in section 3.8.8.5.2 Include, the previously excluded app, back to the project.
- Add App, described in section 3.8.8.5.3 Add a new app to the project.
- Add App Shortcut, described in section 3.8.8.5.4 Add an app shortcut to the project.
- Add App FTA, described in section 3.8.8.5.5 Add an app FTA (File Type Association) to the project.
- Edit App, described in section 3.8.8.5.6 Edit the App details such as name, version and application path.
- Edit App Shortcut, described in section 3.8.8.5.7 Edit shortcut details of the App.
- Edit App FTA, described in section 3.8.8.5.8 Edit a file type association (FTA) of the App.
- Delete App, described in section 3.8.8.5.9 Delete the App from the project.
- Delete App Shortcut, described in section 3.8.8.5.10 Delete a shortcut of the App from the project.
- Delete App FTA, described in section 3.8.8.5.11 Delete a file type association (FTA) from the project.





3.8.8.5.1 Exclude App

Exclude the unnecessary app from the project.

• Go to the Shortcuts\Apps -> APPV tab.

	- PKG-190430-1	44511.mgp)								- 0	
MENU	Package	Files	Shortcuts\Apps	Registry	System	n resources						
					M	SI UWP	APPV					
plication efox						Application Name firefox Version 63.0.3.0 Application path C:\Program Files	(x86)\Mozilla Firefox\fire	fox.exe			Brov	vse.
						Shortcuts			File Type A	ssociations		
						Name	Folder		Extension	Progld		
						Firefox	C:\Users\Public\Desktop		.html	FirefoxHTML-E7CF17	6E110C211B	
					•							

• Select Exclude from the context menu of an item, which you want to exclude from the project. Note that the excluded items are highlighted in yellow and crossed out.

Edit package	- PKG-190430-144511.mg	Ib							-	
≡ MENU	Package Files	Shortcuts\Apps	Registry	System	n resources					
				MS	SI UWF	APPV				
Application					Application					
firefox	New applicatio	on			Name					
	Exclude	Del			Version					
	Delete	Shift+Del			63.0.3.0					
					Application path]	
					C:\Program Files	(xoo)\mozilia Firetox\tiretox.exe				browse
					Shortcuts	Felder	File Type A	ssociations		
					Firefox	C:\Users\Public\Desktop	.html	FirefoxHTML-E7CF1	76E110C	211B
				:	Firefox	C:\ProgramData\Microsoft\Windows\!				
					Add	Delete	Add	Exclude		
Add	Exclude									

3.8.8.5.2 Include Excluded App

Include, the previously excluded app, back to the project.



• Go to the Shortcuts\Apps -> APPV tab.

Edit package	e - PKG-190430-1	44511.mgp									– 🗆 ×
≡ menu	Package	Files	Shortcuts\Apps	Registry	System	resources					
					MS	i UWP	APPV	-			
Application						Application					
HIEIGX						firefox					
						Version					
						63.0.3.0					
						Application path	(x86)\Mozilla Fire	fox\firefox.exe			Browse
						Shortcuts			File Type	Associations	
						Name	Folder		Extension	Progld	
						Firefox	C:\Users\Public\D	esktop	.html	FirefoxHTML-E7CF1	76E110C211B
						Firefox	C:\ProgramData\I	Microsoft\Windows\5			
						Add	Delete		Add	Exclude	
Add	Delet	te									

Select Include from the context menu of an item, which you want to include back to the project. Note that the excluded items are highlighted in yellow and crossed out.
 Edit package - PKG-190430-144511.mgp

Application Application Include Ins Delete Shift+Del Application path C-VProgram Files (x86)/Mozilla Firefox/firefox.exe Shortcuts File Type Associations File Type Associations File Type Associations Firefox C4VProgram Dats/Microsoft/Windows(Firefox C4VProgram Dats/Microsoft/Windows(Application Include Ins Delete Shift+Del Application path CAPPogram Files (x86)Wozilla Firefox/firefox.exe Shortcuts File Type Associations File Type Associations File Type Associations File Type Associations File for CAUSees/AuguicaDeaktop Filefox CAUSees/AuguicaDeaktop Filefox Add Delete Add Delete Add Exclude	≡ menu	Package Files	Shortcuts\Apps	Registry	Systen	n resources					
	Add Delete Add Exclude	Application firefox	Package Files New application Include Delete	Shortcuts\Apps	Registry	M:	n resources Version Application Name firefox Version 63.0.3.0 Application path C:\Program Files Shortcuts Name Firefox Firefox Firefox	APPV (x86)\Mozilla Fire (x86)\Mozilla Fire CAUsers\Public\De CAUsers\Public\De	fax\firefax.exe sktop kicrosoft\Windows\s	File Type As Extension .html	SOCIATIONS Progld FirefoxHTML-E7CF17	Browse

3.8.8.5.3 Add App

Add a new app to the project.



 \mathbf{v}

• Go to the Shortcuts\Apps -> APPV tab.

Edit package	- PKG-190430-1	44511.mgp									- U X
≡ MENU	Package	Files	Shortcuts\Apps	Registry	System	n resources					
Application firefox					M9	Application Name firefox Version 63.0.3.0 Application path C:\Program Files Shortcuts Name Firefox Firefox Firefox	APPV (x86)\Mozilla Fire (x86)\Mozilla Fire CAUsers\PublichE CAProgramData\ Delete	esktop Wicrosoft\Windows\S	File Type A	SSOCIATIONS ProgId FirefoxHTML-E7CF176 Exclude	Browse
						Add	Delete		Add	Exclude	
Add	Exclud	de									

Select New application from the context menu of the Applications list.
 Edit package - PKG-190430-144511.mgp

Edit package	- PKG-190430-14	4511.mgp									- 🗆	×
≡ MENU	Package	Files SI	hortcuts\App	s Registry	Systen	1 resources						
					M	5I UWP	APPV					
Application						Application						
firefox						Name						
	New ap	plication				firefox						
	Exclude	e De				Version						
	Delete	Sn	iitt+Del			63.0.3.0						
						Application path		155			Deevee	
						C:\Program Files	(X86)\MOZIIIA FIRETO	x\tiretox.exe			Browse.	
						Shortcuts			File Type As	sociations		
						Name	Folder		Extension	Progld		
						Firefox	G:\Users\Public\Desk	top	.html	FirefoxHTML-E7CF17	5E110C211B	
					:	Firefox	C:\ProgramData\Mic	rosoft\Windows\:				
						Add	Delete		Add	Exclude		
Add	Exclude	e										





• Select an application executable file and click Select.

Select file or folder	-	×
Name		-
B C:		
Program Files (x86)		
🖃 🛄 Mozilla Firefox		
🕀 🔤 browser		
🕀 🔜 defaults		
fonts		
🗉 🔤 gmp-clearkey		
🗉 🔜 uninstall		_
crashreporter.exe		
irefox.exe		
maintenanceservice.exe		
maintenanceservice_installer.exe		
minidump-analyzer.exe		
pingsender.exe		
plugin-container.exe		
plugin-hang-ui.exe		
Dupdater.exe		
🕀 🖿 Mozilla Maintenance Service		
ProgramData		-
V Select Cancel		

3.8.8.5.4 Add App Shortcut

Add an app shortcut to the project.



• Go to the Shortcuts\Apps -> APPV tab.

Edit package	e - PKG-190430-14	14511.mgp									- 🗆	×
≡ menu	Package	Files	Shortcuts\Apps	Registry	System	resources						
					MS	i uwp	APPV	-				
Application						Application						
firefox						Name						
						firefox						
						Version						
						63.0.3.0						
						Application path						
						C:\Program Files	(x86)\Mozilla Fire	fox\firefox.exe			Browse	2
						Shortcuts			File Type As	sociations		
						Name	Folder		Extension	Progld		
						Firefox	C:\Users\Public\De	esktop	.html	FirefoxHTML-E7CF1	76E110C211B	
					:	Firefox	C:\ProgramData\N	/licrosoft\Windows\!				
						Add	Delete		Add	Exclude		
Add	Exclud	e										

Select New shortcut from the context menu of the Shortcuts list. NOTE The new shortcut will be added to the application that is currently selected from the Applications list.
 Edit package - PKG-190430-144511.mgp

Edit package - PKG-190430-144511.mgp				- 🗆 X
≡ MENU Package Files Shortcuts\Apps Registry	System resources	s		
■ MENU Package Files Shortcuts\Apps Registry Application	System resources MSI Name firefox Version 63.0.3.0 Application C:\Progra Shortcu Name Firefox Firefox	s UWP <u>APPV</u> ation path am Files (x86)\Mozilla Firefox\firefox.exe uts Folder CAUSers/Public\Desktop CAUSers/Public\Desktop Properties F2 Exclude Del Delete Shift+Del	File Type As Extension Intmi	Browse SSOCiations Progld FirefoxHTML-E7CF176E110C211B
	4 Add	d Exclude	Add	Exclude
Add Exclude				



• Specify shortcuts details such as icon, name, installation folder, arguments and so on Afterwards, click Save.

Properties				—		\times
no icon ~ Shortcut						
Name						
						0
Target (installation) folder						
					Browse	-
Details						
Arguments						
Start in (WkDir)						
					Browse	
Run						
Normal window						\sim
	Save	Cance	el			

3.8.8.5.5 Add App FTA

Add an app FTA (File Type Association) to the project.

• Go to the Shortcuts\Apps -> APPV tab.

Edit package	e - PKG-190430-144511.mg	р								-	
≡ menu	Package Files	Shortcuts\Apps	Registry S	ystem	resources						
				MS	i uwp	APPV					
Application					Application						
firefox					Name						
					firefox						
					Version						
					63.0.3.0						
					Application path						
					C:\Program Files	(x86)\Mozilla Firef	ox\firefox.exe			Br	owse
					Shortcuts			File Type A	ssociations		
					Name	Folder		Extension	Progld		
					Firefox	C:\Users\Public\De	sktop	.html	FirefoxHTML-E7CF	176E110C21	1B
				:	Firefox	C:\ProgramData\M	icrosoft\Windows\!				
					Add	Delete		Add	Exclude		
Add	Exclude										
Aud	Exclude										



• Select New FTA from the context menu of the File Type Associations list. NOTE The new file type association will be added to the application that is currently selected from the Applications list.

Edit package	- PKG-190430-1	44511.mgp									-		×
	Package	Files	Shortcuts\Apps	Registry	Syster	n resources							
					М	SI UWP	APPV						
Application Tirefox						Application Name firefox Version 63.0.3.0 Application path C:\Program Files (Shortcuts Name	x86)\Mozilla Firefox\firefox.exe Folder	File Ty Extensio	ype Asso	ociations ^{rrogId}		Browse	
						Firefox Firefox	CAUSers/RublictDesktop CAProgramData\Microsoft\Windows\Start Exclude	html	New FTA Propertie Exclude Delete	s F2 Del Shift+Del	6E110C	2118	
Add	Exclud	de											

• Specify a file type association details such as file extension, Progld, content and perceived types, context menu commands and click **Save**.

File Type Associations			_	×
Extension				
				0
Progld				
 Create new file type 				
O Associate with existin	ng file type			
				\sim
Progld description				
Content type				
content type				
Perceived type				~
				•
Actions				
Command	Verb	Parameters		
	open	"%1"		
	Save	Cancel		





3.8.8.5.6 Edit App

Edit the App details such as name, version and application path.

• Go to the Shortcuts\Apps -> APPV tab and select the necessary App from the Application list.

MENU	Package	Files	Shortcuts\Apps	Registry	System	resources					
					MSI	UWP	APPV				
olication						Application Name firefox /ersion 63.0.3.0					
					A	Application path C:\Program Files	(x86)\Mozilla Fire	fox\firefox.exe	File Ture	Accesiations	Browse
					2				гне туре	Associations	
						Name	Cillicere) Public) De	vittop	Extension	FirefordTML E7CE1	45110C211R
						Firefox	C\ProgramData\W	licrosoft(Windows);	**		
						Add	Delete		Add	Exclude	

• Update the necessary application details such as name, version and the application path clicking Browse.

Edit package	e - PKG-190430-1	44511.mgp	1							- 🗆	×
≡ MENU	Package	Files	Shortcuts\Apps	Registry	Syste	m resources					
					Ν	ASI UWF	APPV				
Application						Application					
firefox						Name firefox					
						Version					
						63.0.3.0					
						Application path					
						C:\Program File	s (x86)\Mozilla Firefox\firefox.exe			Brow	se
						Shortcuts		File Type	Associations		
						Name	Folder	Extension	Progld		
						Firefox	G:\Users\Public\Desktop	.html	FirefoxHTML-E7CF17	6E110C211B	
						FIRETOX	C:\ProgramData\Microsott\Windows\:				
						Add	Delete	Add	Exclude		
Add	Exclue	de									



3.8.8.5.7 Edit App Shortcut

Edit shortcut details of the App.

• Go to the Shortcuts\Apps -> APPV tab and select the necessary App from the Application list.

Edit package	e - PKG-190430-14	14511.mgp								- 0	×
≡ MENU	Package	Files	Shortcuts\Apps	Registry	Syste	m resources					
					Μ	ISI UWP	APPV				
Application						Application					
firefox						Name					
						TIFETOX					
						Version 63.0.3.0					
						Application path					
						C:\Program Files	(x86)\Mozilla Firefox\firefox.exe			Brow	se
						Shortcuts		File Type A	sociations		
						Name	Folder	Extension	Progld		
						Firefox	C:\Users\Public\Desktop	.html	FirefoxHTML-E7CF17	6E110C211B	
						Firefox	C:\ProgramData\Microsoft\Windows\!				
						Add	Delete	Add	Exclude		
Add	Exclud	e									

Select Properties from the context menu of a shortcut, which you wan to edit.

 Edit package - PKG-190430-144511.mgp

Edit package - PKG-190430-144511.mgp		– 🗆 ×
≡ MENU Package Files Shortcuts\Apps Registry	System resources	
■ MENU Package Files Shortcuts\Apps Registry	System resources MSI UWP APPV Application Name firefox Image: Firefox Version 63.0.3.0 Application path C:\Program Files (x86)\Mozilla Firefox\firefox.exe Shortcuts File Type Associations Image: Firefox C:\Program DataMicrosoftWindowst Image: Firefox C:\ProgramDataMicrosoftWindowst Image: Firefox Add	Browse S E7CF176E110C211B
Add Exclude		





• Update the necessary values such as icon, shortcut name, installation folder, arguments and so on. Afterwards, click Save

Properties Shortcut	_		×
Name			
Firefox			
Target (installation) folder			
C:\ProgramData\Microsoft\Windows\Start Menu\Programs		Browse	
Arguments Start in (WkDir)			
C:\Program Files (x86)\Mozilla Firefox		Browse	
Run			
Normal window			~
Save Cancel			

3.8.8.5.8 Edit App FTA

Edit a file type association (FTA) of the App.

Go to the Shortcuts\Apps -> APPV tab and select the necessary App from the Application list.
 © Edit package - PKG-190430-144511.mgp

Edit package	e - PKG-190430-1	144511.mgp								-		×
≡ MENU	Package	Files	Shortcuts\Apps	Registry	Systen	n resources						
					M	SI UWF	APPV					
Application						Application						
firefox						Name						
						firefox						
						Version						
						63.0.3.0						
						Application path	(P		
						C. (Program File	s (xoo) (Mozilia Firelox (Ilrelox.exe			D	rowse	
						Shortcuts		File Type A	ssociations			
						Name	Folder	Extension	Progld			
						Firefox	C:\Users\Public\Desktop	.html	FirefoxHTML-E7CF17	6E110C2	11B	
					:	Firefox	C:\ProgramData\Microsoft\Windows\!					
						Add	Delete	Add	Exclude			
Add	Exclue	de										



Select Properties from the context menu of a file type association, which you wan to edit.

 Edit package - PKG-190430-144511.mgp

≡ MENU	Package	Files	Shortcuts\Apps	Registry	Syster	m resources					
					М	ISI UWP	APPV				
Application firefox						Application Name firefox Version 63.0.3.0 Application path C:\Program Files Shortcuts Name Firefox Firefox Add	APPV (x86)\Mozilla Firef Folder CAUsers\Public\De CAUsers\Public\De CAUsers\Public\De	fox/,firefox.exe	File Typ Extension .html	De Associations Progid FirefoxHTML-E7CF176 New FTA Properties F2 Exclude Del Delete Shift+Du d	Browse
Add	Exclu	de									

• Update the necessary file type association details such as file extension, Progld, content and perceived types, context menu commands and click **Save**.

🔋 File Typ	e Associations			_	\times
Extension					
.html					
Progld					
O Create	e new file type				
 Associ 	iate with existin	g file type			
Firefo	oxHTML-E7CF17	76E110C211B			~
Proald de	scription				
Firefox I	Document				
Content to	ma				
content ty	ibe				
Perceived	type				
					*
Actions					
	Command	Verb	Parameters		
		open	-osint -url "%1"		



 \Box \times

3.8.8.5.9 Delete App

Delete the App from the project.

• Go to the Shortcuts\Apps -> APPV tab.

MENU Package Files Shortcuts\Apps Registry System resources MSI UWP APPV	
Application Application Name	
Application Application	
firefox Name	
tirefox	
Version	
63.0.3.0	
Application path	D
C:\Program Files (x66)\Mozilla Firefox\firefox.exe	browse
Shortcuts File Type Associations	
Name Folder Extension Progld	
Firefox CAUsers/Public/Desktop Intml FirefoxHTML-E	7CF176E110C211B
Firefox CAProgramData\Microsoft\Windows\5	
Add Delete Add Exclude	
Add Exclude	

• As the **Delete** is available only for the excluded resources, first exclude an item, which you want to delete, selecting **Exclude** from the context menu. Note that the excluded items are highlighted in yellow and crossed out.

Edit package	- PKG-190430-144511.mg	lb								- 0	×
≡ menu	Package Files	Shortcuts\Apps	Registry	Systen	n resources						
				M	5I UWP	APPV					
Application					Application						
firefox					Name						
	New application	on			firefox						
	Exclude	Del			Version						
	Delete	Shift+Del			63.0.3.0						
					Application path						
					C:\Program Files	(x86)\Mozilla Firefo	x\firefox.exe			Browse.	
					Shortcuts			File Type As	sociations		
					Name	Folder		Extension	Progld		
					Firefox	G:\Users\Public\Desk	top	.html	FirefoxHTML-E7CF176	E110C211B	
				:	Firefox	C:\ProgramData\Mic	rosoft\Windows\!				
					Add	Delete		Add	Evolude		
					Auu	Delete		Auu	Exclude		
Add	Exclude										



 Select Delete from the context menu of the excluded App, which you want to delete from the project.

😂 Edit package - I	PKG-190430-144511.r	mgp									-		×
	Package Files	s Shortcut	ts\Apps	Registry S	System	resources							
E MENU	Package Files New application Include Delete	s Shortcut	ts\Apps	Registry	MS MS	resources UWP Application Name firefox Version 63.0.3.0 Application path C:\Program Files Shortcuts Name Firefox Firefox	 (x86)\Mozilla Firefox\firefox Folder CAUsers\Public\Desktop C\ProgramData\Microsoft\Wi	.exe	File Type As: Extension html	SOCiations Progld FirefoxHTML-E7CF17	76E110C	Growse	
Add	Delete					Add	Delete		Add	Exclude			
. 100	- 27676												

3.8.8.5.10 Delete App Shortcut

Delete a shortcut of the App from the project.

×

≡ menu	Package	Files	Shortcuts\Apps	Registry	Systen	n resources					
					M	SI UWP	APPV				
Application						Application					
firefox						Name firefox					
						Version					
						63.0.3.0					
						C:\Program Files	(x86)\Mozilla Firefox\	firefox.exe			Browse
						Shortcuts			File Type A	ssociations	
						Name	Folder		Extension	Progld	
						Firefox	C:\Users\Public\Deskto	нр.	.html	FirefoxHTML-E7CF17	5E110C211B
						Firefox	C:\ProgramData\Micro	soft\Windows\5			
						Add	Delete		Add	Exclude	
Add	Exclude	e									

• As the **Delete** is available only for the excluded resources, first exclude an item, which you want to delete, selecting **Exclude** from the context menu. Note that the excluded items are

highlighted in yellow and crossed out.

© Edit package	- PKG-190430-1	44511.mgp											- 0	×
≡ menu	Package	Files	Shortcuts\Apps	Registry	System	resources								
Application firefox						Applicat Name firefox Version 63.0.3.0 Application pa	UWP	APPV						
						C:\Program	Files (x86)\Moz	illa Firefox\firef	fox.exe		File Type As	sociations	Brov	/se
						Name	Folder				Extension	Progld		
						Firefox	Gi\Users\i	2ublic\Desktop			.html	FirefoxHTML-E7CF176	E110C211E	
						Firefox	CAProora New shortcu Properties Exclude Delete	nData\Microsoft t F2 Del Shift+Del	Windows\!	:	Add	Exclude		
Add	Exclud	de												

• Select **Delete** from the context menu of the excluded shortcut, which you want to delete from the project.

Edit package - PKG-190430-144511.mgp							- 🗆	×
■ MENU Package Files Shortcuts\App	os Registry Syst	em resources						
		MSI	JWP APPV					
Application		Applicat	ion					
firefox		Name						
		firefox						
		Version						
		63.0.3.0						
		Application pat	h					
		C:\Program	Files (x66) (Mozilia Firetox (ti	retox.exe			browse	2
		Shortcut	S		File Type A	ssociations		
		Name	Folder		Extension	Progld		
		Firefox	C:\Users\Public\Desktop	•	.html	FirefoxHTML-E7CF17	6E110C211B	
		Firefox	New shortcut	~ft\Windows\:	4			
			Properties F2					
			Include Ins					
			Delete Shift+Del					
		_						
			DI					
		Add	Delete		Add	Exclude		
Add Exclude								

3.8.8.5.11 Delete App FTA

Delete a file type association (FTA) from the project.



Go to the Shortcuts\Apps -> APPV tab and select the necessary App from the Application list.
 © Edit package - PKG-190430-144511.mgp

≡ MENU	Package	Files	Shortcuts\Apps	Registry	Systen	n resources					
Application firefox	Package	Files	Shortcuts\Apps	Registry	System M:	Name Firefox Version 63.0.3.0 Application path C:\Program Files Shortcuts Name Firefox Firefox Firefox Add	APPV (x86)\Mozilla Fire Folder CAProgramData\ Delete	fox\firefox.exe esktop Alicrosoft\Windows\S	File Type As Extension .html	Sociations ProgId FirefoxHTML-E7CF1	76E110C2118
Add	Exclud	de									

• As the **Delete** is available only for the excluded resources, first exclude an item, which you want to delete, selecting **Exclude** from the context menu. Note that the excluded items are highlighted in yellow and crossed out.

■ MENU Package Files Shortcuts\Apps Registry System resources	
MSI UWP APPV	
Application fretox Application S3.0.3.0 Application path C-\Program Files (x86)\Mozilla Firefox\firefox.exe Shortcuts Firefox CAProgram Data\Microsoft\Windows\Statt Image: Product of the state of the s	e Type Associations tension Progld tml ElectrovHTML_F77E_1176E110C2118 New FTA Properties F2 Exclude Del Delete Shift+Del Add Exclude



• Select **Delete** from the context menu of the excluded file type association, which you want to delete from the project.

Edit package	e - PKG-190430-1	44511.mgp									-		×
	Package	Files	Shortcuts\Apps	Registry	Syster	m resources							
Application firefox	Tatkage					ISI UWP Application Name firefox Version 63.0.3.0 Application path C:\Program Files Shortcuts Name Firefox Firefox Firefox	APPV (x86)\Mozilla Firefo Folder CAUsers\Public\Desi CAProgramData\Mic	xt\firefox.exe ktop 1 prosoft\Windows\1	File Type Extension	e Associations Progld Endewland F7CEST New FTA Properties F2 Include Ins Delete Shift+Del	Bressiloc21	owse	
Aud	LACIUC												



3.8.9 THINAPP Settings

Choose a scenario that better suits your needs:

- Set Entry Points, described in section 3.8.9.1 Select which of package executable (EXE) files that will be shortcuts into the virtual environment.
- Define Primary Data Container, described in section 3.8.9.2 Define how the virtual file system, virtual registry and ThinApp runtime will be stored in the package: as a separate file (usually DAT) or within one of entry points.

3.8.9.1 Set Entry Points

Select which of package executable (EXE) files that will be shortcuts into the virtual environment. For information, see <u>Defining Entry Points as Shortcuts into the Virtual Environment</u>.

• Go to the Package -> THINAPP tab.

🔘 Edit p	package - Pł	KG-190430-1	44511.m	gp								- 0	×	
	NU P	ackage	Files	Shortcuts\Apps	Registry	System resources								
					MSI	MST	UWP	APPV	THINAPP					
Thin	App Se	ttings					Thin	App Pack	age Optio	ns				
Entry po	pints						Invento	ry name						
	Name			Description			Firefo	IX						
 Image: A second s	Firefox.exe			C:\Program Files (x86)\Mozilla	a Firefox\firefox.e	xe		orata MCI pag	kagai					
	crashreporte	r.exe		C:\Program Files (x86)\Mozilla	a Firefox\crashre	oorter.exe		arilla Maintan	.kaye.					
	firefox (1).ex	e		C:\Program Files (x86)\Mozilla	a Firefox\firefox.e	xe	IVI	ozilia Maintena	ance service.ms					
	maintenance	service.exe		C:\Program Files (x86)\Mozilla	a Firefox\mainter	anceservice.exe	Project	location						
	maintenance	eservice_insta	ller.exe	C:\Program Files (x86)\Mozilla	a Firefox\mainter	anceservice_installer.ex	C:\U	ers\pace\Doci	uments\MSI Ger	nerator\Packages\PKG-1	Browse	Got	to	
	minidump-a	nalyzer.exe		C:\Program Files (x86)\Mozilla	a Firefox\minidur	np-analyzer.exe								
	pingsender.e	exe		C:\Program Files (x86)\Mozilla	a Firefox\pingsen	der.exe	Buil	Build Details						
	plugin-conta	iner.exe		C:\Program Files (x86)\Mozilla	a Firefox\plugin-o	container.exe		w64=0						
4						- F	Alt.	ArchitectureSh	ortcut=1					
Primary	data contair	ner						dDotNotErom	System=Win7					
O Use	one of the	entry poin	nts					ubothetrom	System=win/					
Fire	fox.exe					~	/ O On	y prepare Thin	App package st	tructure				
O Use	separate .[DAT file					Pre	pare ThinApp	package structu	re and build the package				
Fire	efox.dat											Oper		
Compre	ssion						Type	Flanced	Sten			ope	. log	
	noress virtu	ual package	e				Type	Elapsed	ыср					
File syste	em isolation	mode												
Full we	ite access t	to non-syst	tem dire	ctories (Merged)										
- un wi	ne access i	to non-syst	iem une	ciones (mergeu)										
Sandbox	x location													
User	r profile (%	AppData%	\Thinsta	II)										
O Cust	tom locatio	n					Elapse	l time						
						Browse	00:00				Ŷ	Build TH	INAPP	

Select executable files from the Entry points list, which you want to define as shortcuts into the virtual environment that will start the virtual application.

NOTE In the end of the list you can find the cmd.exe and regedit.exe entry points, used to




Edit package - PKG-190450-144	511.mgp								
E MENU Package	Files Shortcuts\Apps Regi	stry System reso	ources						
	MS	ii MST	UW	/P /					
I NINAPP Settings				IninAp	р Раскаде	Options			
Intry points				Inventory na	ime				
Name	Description		-	Firefox					
 Firefox.exe 	C:\Program Files (x86)\Mozilla Firefox	\firefox.exe	_	□ Generat	te MSI package:				
crashreporter.exe	C:\Program Files (x86)\Mozilla Firefox	\crashreporter.exe	_	Mozilla	a Maintenance S	Service.msi			
firefox (1).exe	C:\Program Files (x86)\Mozilla Firefox	\firefox.exe	_						
maintenanceservice.exe	c:\Program Files (x66)\Mozilla Firefox	maintenanceservice.exe	ller ev	Project locat	ion			6	
minidump-analyzer.exe	C:\Program Files (x86)\Mozilla Firefox	\minidump-analyzer.exe	inches	C:\Users\	pace\Documen	ts\MSI Generator\Packages\PKG-1	Browse	Got	to
pingsender.exe	C:\Program Files (x86)\Mozilla Firefox	pingsender.exe		Build D	etails				
plugin-container.exe	C:\Program Files (x86)\Mozilla Firefox	\plugin-container.exe	-						
4			- F	Wow64	=0				
Primary data container				🗹 AltArchi	tectureShortcut	:=1			
Use one of the entry points				LoadDo	otNetFromSyster	m=Win7			
Firefox.exe			~	O Only pre	epare ThinApp	package structure			
O Use separate .DAT file				Prepare	ThinApp packa	ge structure and build the package			
Firefox dat								0	
				BUILD	DLOG			Oper	n log
Compression				Туре	Elapsed	Step			
Compress virtual package									
ile system isolation mode									
Full write access to non-syster	n directories (Merged)		~						
andbox location									
	hinstall)								

3.8.9.2 Define Primary Data Container

Define how the virtual file system, virtual registry and ThinApp runtime will be stored in the package: as a separate file (usually DAT) or within one of entry points. For information, see <u>Defining the Primary Data</u> <u>Container</u>.

• Go to the Package -> THINAPP tab.

Edit package - PKG-190430-144511.mgp	- 0	×
MSI MST I	UWP APPV THINAPP	
ThinApp Settings	ThinApp Package Options	
Entry points	Inventory name	
Name Description	Firefox	
Firefox.exe C:\Program Files (x86)\Mozilla Firefox\firefox.exe		
C:\Program Files (x86)\Mozilla Firefox\crashreporter.exe	Generate MSI package.	
firefox (1).exe C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Mozilia Maintenance Service.msi	
maintenanceservice.exe C:\Program Files (x86)\Mozilla Firefox\maintenanceservice.exe	Project location	
maintenanceservice_installer.exe C:\Program Files (x86)\Mozilla Firefox\maintenanceservice_installer.ex	C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Browse Go to)
minidump-analyzer.exe C:\Program Files (x86)\Mozilla Firefox\minidump-analyzer.exe	Puild Dataila	
pingsender.exe C:\Program Files (x66)\Mozilla Firefox\pingsender.exe	build Details	
plugin-container.exe	□ Wow64=0	
	☑ AltArchitectureShortcut=1	
Primary data container	LoadDotNetFromSystem=Win7	
	O Only prepare ThinApp package structure	
hirefox.exe	O Only prepare thinkpp package structure and build the package	
Firefox.dat	BUILD LOG Open	log
Compression	Type Elapsed Step	
Compress virtual package		_
File system isolation mode		
Full write access to non-system directories (Merged)		
Sandbox location		
Oser prome (#AppData%) (Ininstall) O Custom location		
Browse	Elapsed time 00:00 🔁 Build THI	NAPP

Select the necessary primary data container settings.
 © Edit package - PKG-190430-144511.mgp

≡ ме	NU Package	Files	Shortcuts\Apps	Registry	System resources	5						
				MSI	MST	UWP	, ,	APPV	THINAF	P		
Thin	App Settings						ThinA	pp Packa	ige Opti	ons		
Entry p	oints						Inventory	name				
	Name		Description			A	Firefox					
\checkmark	Firefox.exe		C:\Program Files (x86)\Mozill	a Firefox\firefox.	exe		Gener	ata MSI pack	200:			
	crashreporter.exe		C:\Program Files (x86)\Mozill	a Firefox\crashre	porter.exe		Mori	lla Maintanar	aye.	mai		
	firefox (1).exe		C:\Program Files (x86)\Mozill	a Firefox\firefox.	exe		IVIOZI	lia iviairiteriai	ice service.	11151		
	maintenanceservice.exe		C:\Program Files (x86)\Mozill	a Firefox\mainte	nanceservice.exe		Project loc	ation				
	maintenanceservice_ins	taller.exe	C:\Program Files (x86)\Mozill	a Firefox\mainte	nanceservice_installer.ex		C:\Users	s\pace\Docur	ments\MSI (Generator\Packages\PK0	G-1 Browse.	Go to
	minidump-analyzer.exe		C:\Program Files (x86)\Mozill	a Firefox\minidu	mp-analyzer.exe							
	pingsender.exe		C:\Program Files (x86)\Mozill	a Firefox\pingser	nder.exe		Build	Details				
	plugin-container.exe		C:\Program Files (x86)\Mozill	a Firefox\plugin-	container.exe	w.	Wow6	4=0				
4					ł	_		hitectureShor	rtcut=1			
Primary	/ data container					1.1)otNatEromS	vstom=Win	7		
 Use 	one of the entry po	ints					L LOAGE	ouvenionio	ystern= win			
Fin	efox.exe					~	O Only p	prepare ThinA	opp package	e structure		
O Use	separate .DAT file					_	Prepar	re ThinApp pa	ackage stru	cture and build the pack	age	
Fi	efox.dat						BUI	LD LOG				Open log
Compre	ession						Туре	Elapsed	Ste	p		
	mpress virtual packa	ge										
File sys	tem isolation mode											
Full w	rite access to non-sy	stem dir	ectories (Merged)			-						
Sandbo	v location											
Use	r profile (%AppData	%\Thinst	all)									
O Cus	tom location											
					Browse		Elapsed tii 00:00	me				🗳 Build THINAPP



_



3.9 Edit APPV

• Launch MSI Generator from the desktop of the start menu shortcut.



• If you have the User Account Control enabled, click Yes to launch the application.

User Account Control	×
Do you want to allow th changes to your device	nis app to make ?
i MSI Generator	
Verified publisher: Infopulse Uk File origin: Hard drive on this c	traine LLC omputer
Show more details	
Yes	No



• Click Import APPV package.

Start screen	package.			×
			¢	MSI GENERATOR Licensed for PACE Suite demonstration (V
Packaging sce New	enarios		Open	
Capture installation	Create response transform	Create blank project	Edit project	Import APPV package
Testing scena	rios			
Take system snapshot	Compare system snapshots			
Import an APP	⁰V package to the project, mo	Import APPV package dify necessary resources and buil	ld new APPV, APPX, THINAPP or M	SI package.

• Choose an App-V package (*.APPV), which you want to edit from your file system and Open.

© Open			×
← → • ↑ 🖊 :	> This PC > Downloads	✓ [™] Search	n Downloads 🔎
Organize 🔻 New	folder		III 🔻 🔟 😲
🛃 Quick access	Name	Date modified	Type Size
Desktop	# PKG-190212-152709.appv	2/15/2019 2:23 PM	Microsoft Applica 63,875
🕂 Downloads	*		
Documents	*		
Pictures	*		
📧 OneDrive			
💻 This PC			
i Network			
•4 Homegroup			
	<		>
F	File name: PKG-190212-152709.appv	~ Proje	ct files (*.appv)
			Open Cancel

- For managing project resources such as files, folders, registry, and shortcuts, refer to the respective section of this document:
 - o Regarding File and Folders see section 3.8.2
 - o Regarding Registry see section 3.8.3



- For managing APPV Settings such as application details, target OS, PVAD, streamin settings, APPV version, virtualization level for the folders and registry keys, APPV apps, their shortcuts and file type associations (FTA), see section 3.8.8
- Finally, to generate an APPV package navigate to the Package -> APPV tab and click Build APPV.

Edit package	- PKG-190430-	144511.mgp										_		×
≡ menu	Package	Files	Shortcuts\Apps	Registry	System resources	;								
				MSI	MST	UW	Ρ	APPV	Т	HINAPP				
Application	on Detail	S					App-'	V Packag	je O	ptions				
Application nam	ie						App-V ve	rsion						
Firefox							App-V	5.2 (1607) pa	ckage	format version				~
Version							Package r	ame						
63.0.3							PKG-19	0430-144511						
Publisher							Package f	older						
Mozilla							C:\Use	rs\pace\Docu	ument	ts\MSI Generator\Packages\PKG-1	Browse		Go to.	
App-V Se	ettings						Descriptio	n						
Primary virtual a	application direc	tory (PVAD)												
Do not use P	VAD (default)					*	BU	ILD LOG				(Open lo	og
Streaming optio	ins						Туре	Elapsed		Step				
Force appli	ication to be f	ully downlo	aded before launching	g.										
Target OS														
 Allow this p Allow this r 	backage to be	run on any	operating system	na systems										
Select O	IS		in the selected operation	ng systems										
Advanced option	ns													
Allow all na	amed objects	to interact v	with the local system											
Allow all C	OM objects to	interact wi	th the local system											
Allow virtu	al application	full write pe	ermissions to the virtu	al file system										
🗌 Enable Bro	wser Helper (Objects					Flanced +	ime						
							00:00	inte			d d	þ Bu	uild API	PV

• Once the package is built, click **Go to**..., located next to the **Project folder** field, to open the APPV project folder in Windows Explorer. Find your package in the opened folder.

Edit package - PKG-190430-144511.mgp	- 0	×
MSI MST U	IWP APPV THINAPP	
Application Details	App-V Package Options	
Application name	App-V version	
Firefox	App-V 5.2 (1607) package format version	~
Version	Package name	
63.0.3	PKG-190430-144511	
Publisher	Parkage folder	
Mozilla	C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Browse Go to	
App-V Settings Primary virtual application directory (PVAD) Do not use PVAD (default)		log
Streaming options	Type Flansed Step	- 5
Force application to be fully downloaded before launching.	00:00:30 Operation was completed successfully	
Target OS	00:00:06 Saving package	
 Allow this package to be run on any operating system 	00:00:06 Processing software clients	
 Allow this package to be run only on the selected operating systems 	00:00:06 Processing environment variables	
Select OS	00:00:06 Processing URL protocols	
Advanced antians	00:00:05 Processing application capabilities	
	000005 Processing FIAs	
Allow all named objects to interact with the local system	00:00:05 Processing COM objects	
Allow all COM objects to interact with the local system	00:00:05 Processing services	
□ Allow virtual application full write permissions to the virtual file system	00:00:05 Processing registry	-
L Enable browser melper Objects	Elapsed time 00:00:30	PV



3.10 Deploy MSI to SCCM

NOTE For publishing MSI packages to Microsoft SCCM 2007 (SP1/SP2/R1/R2) or SCCM 2012 (SP1/SP2/R2/R2 SP1) server, ensure that your system contains Microsoft Management Framework 3.0 and Windows Remote Management (WinRM) service enabled.

• Launch MSI Editor from the desktop or the start menu shortcut.



• Select Open... from MENU.

MSI Editor		
New MSI	Ctrl + N	
New MST		
Open	Ctrl + O	
Open recent	•	
Apply MST to MSI		
Remove MS1 from MSI		
Save	Ctrl + S	
Save as		
Create MSP against origin	nal MSI	
Generate package report.		
Deploy to SCCM		
Active scripting		
Compare packages		
Edit	•	
Import and export	•	
Validation	•	
Help	•	
Quit	Alt + F4	



• Choose an MSI package, which you want to publish to the SCCM server and click Open.

🥲 Open				×
\leftarrow \rightarrow \checkmark \uparrow \blacksquare \Rightarrow This PC	> Desktop	√ Ū	Search Desktop	Q
Organize 🔻 New folder				• 🔳 🕐
Na 🕹 Quick access	ame	Date modified	Туре	Size
Deckton	PACE_v4.7.0.msi	12/4/2018 11:59 AM	Windows Installer	52,068 KB
	PACE_v5.0.0.msi	11/29/2018 3:03 AM	Windows Installer	51,391 KB
 Documents Pictures OneDrive This PC Network Homegroup 				
File <u>n</u> ame:	PACE_v5.0.0.msi	· · · · · · · · · · · · · · · · · · ·	All Supported Files <u>O</u> pen	(*.msi;*.mst ∨ Cancel

• Select Deploy to SCCM... from the MENU.



• Specify an IP address or a hostname of your SCCM server, user name and password for connecting to the SCCM. Enter a network share, where the package should be uploaded, and credentials for connecting to the network share. Click Next to choose a publishing model. Click



🥑 Publish p	ackage to SCCM					_	
	SCCM server	Package definition	Display information	Publish options	Select files	Publishing	
SCCM s	server and ne	twork share	e settings				
Specify an SCCM server	IP address or hostna	ame of SCCM se	rver				
User name				Password			
oser nume				1 0339010			
🗆 Use Win	ndows session crede	ntials					
Use Wir Specify a n Network sha	ndows session crede network share where re for packages	ntials packages will be	e uploaded				
Use Wir Specify a n Network sha	ndows session crede network share where re for packages	ntials packages will be	e uploaded	Password			
Use Wir Specify a n Network sha	ndows session crede network share where re for packages ndows session crede	ntials packages will be ntials	e uploaded	Password			
Use Wir Specify a n Network sha User name	ndows session crede network share where re for packages ndows session creden	ntials packages will be ntials	e uploaded	Password			
Use Wir Specify a n Network sha User name User vane Use Wir Test connecti	ndows session crede network share where re for packages ndows session creden ions	ntials packages will be ntials	e uploaded	Password			

• Select a suitable publishing model and click Next.

Publish package to SCCM					_		×
Ø	-						
SCCM server	Package definition	Display information	Publish options	Select files	Publishing		
Package definition c	onfiguratio	n					
 Publish as a package The classic way SCCM has u 	sed in the past fo	or deploying softwa	are to devices	and is fully support	ted in SCCM 2007	-2012	
 Publish as an application (re This way is supported only b smart deployment 	commended for by SCCM 2012. A	SCCM 2012) pplications are simi	ilar to packag	es, but contain mor	e information to s	upport	
🛆 Warning! Version of the spe	ecified SCCM ser	ver could not be de	etected.				
				< Back	Next >	Cancel	

• Review and update package display information such as name, manufacturer, version and others. Click Next to choose publish options.

SC	CCM server	✓ Package	Display	Publishing	Select files	Publishing		
		definition	information	options				
Display info	ormation							
lame								
PACE Suite								
lanufacturer								
Infopulse								
ersion								
5.0.0.8								
anguage								
English								
escription								
Infopulse - PACE	E Suite - 5.0.0.	8						
					K Back	Next >	Cancel	
lect the ne	ecessary p	oublish opt	tions and cli	ck Next.				>
lect the ne Publish package	ecessary p to sccm	oublish opt	ions and cli	ck Next.		-		>
ect the ne Publish package	ecessary p eto sccM	oublish opt	tions and cliv	ck Next.				>
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• Select which of files and folders, located in the package folder, should be copied to the network share and click **Next** to publish your package to the SCCM server.

Publish page	ckage to SCCM		12					×
	~				-			
	SCCM server	Package definition	Display information	Publishing options	Select files	Publishing		
Select fi	les							
Select files w	hich also should be	e copied to netw	ork share within t	he package				
Select al	l/none							
🗆 🔚 Sourc	ces							
🗆 🗎 deskt	op.ini							
					< Back	Next >	Cancel	

• Wait while the opened package is publishing to the specified SCCM server.

Publish package to SCCM			<u> </u>				×
							
SCCM server	Package definition	Display information	Publishing options	Select files	Publishing		
Publishing							
SCCM server: test Application: Infopulse - PACE S	juite - 5.0.0.8						
				_			
	Starting		_				
				< Back	Finish	Cancel	

3.11 Generate MSI Package Report

NOTE PACE Suite supports Word Document (.DOCX) and Excel Workbook (.XLSX) format

types and allows generating a report with no Microsoft Office installed on the system.

• Launch MSI Editor from the desktop or the start menu shortcut.



• Select Open... from MENU.

MSI Editor	
New MSI	Ctrl + N
New MST Open	Ctrl + O
Open recent	•
Apply MST to MSI Remove MST from MSI	
Save	Ctrl + S
Save as	
Create MSP against origina	I MSI
Deploy to SCCM	
Active scripting	
Compare packages	
Edit	•
Import and export	,
Validation	*
Неір	,
Quit	Alt + F4





• Choose an MSI package, for which you want to generate a package report and click Open.

Open				×
\leftarrow \rightarrow \checkmark \uparrow \blacksquare \Rightarrow This PC	> Desktop	5 ~	Search Desktop	م
Organize 👻 New folder				• 🔳 🕐
Quick access Quick access Desktop Downloads	ame PACE_v4.7.0.msi PACE_v5.0.0.msi	Date modified 12/4/2018 11:59 AM 11/29/2018 3:03 AM	Type Windows Installer Windows Installer	Size 52,068 KB 51,391 KB
 Documents * Pictures * OneDrive This PC Network 				
• 4 Homegroup File <u>n</u> ame:	PACE_v5.0.0.msi	~	All Supported Files	(*.msi;*.mst ∨ Cancel

• Select Generate package report... from the MENU.





• Select a template for your report and click **Generate**. Find more information about creating a custom template by clicking **How to create a new template**.

Package report			×			
Generate Package R	Report					
Create a document containing general information about the package, custom actions, services, shortcuts, properties, upgrades and more.						
Select a document template f	or the package report					
Template						
PACE - Package Report.docx		~	Browse			
		How to crea	ite a new template			
✓ Open the report after creation						
Open the report after creater	tion					

• Specify a file name and a destination location of the generated package report and click Save.

Save As					×
$\leftrightarrow \rightarrow \cdot \uparrow$	> This PC > Desktop >	ٽ ب	Search Desktop		P
Organize 👻 Ne	ew folder				?
🔹 Quick access	Name	Date modified	Туре	Size	
 Desktop Downloads Documents Pictures OneDrive 	* Sources	10/3/2018 4:27 PM	File folder		
💻 This PC 💣 Network					
•🔩 Homegroup	v				
File <u>n</u> ame:	PACE_v5.0.0 - Package Report.docx				~
Save as <u>t</u> ype:	Word Document (*.docx)				\sim
∧ Hide Folders			Save	Cancel	



3.12 Validate MSI Package

Validate the MSI package using the Internal Consistency Evaluators (ICE).

• Launch MSI Editor from the desktop or the start menu shortcut.



• Select Open... from MENU.





- Choose an MSI package, which you want to validate and click Open. • Open Х ← → ✓ ↑ 三 → This PC → Desktop ~ Ō Search Desktop Q New folder == -Organize 🔻 ? Name Date modified Size Type 📌 Quick access PACE_v4.7.0.msi 12/4/2018 11:59 AM Windows Installer ... 52,068 KB 📃 Desktop 🔁 PACE_v5.0.0.msi 11/29/2018 3:03 AM Windows Installer ... 51,391 KB 👆 Downloads * Documents * Pictures * OneDrive 💻 This PC Petwork 🔩 Homegroup File name: PACE_v5.0.0.msi All Supported Files (*.msi;*.mst ∨ \sim <u>O</u>pen Cancel
- Select Validation -> Full MSI validation suite (ICE) from the MENU.





Wait while MSI Editor is validating the opened package.
 MSI Editor - PACE_v5.0.msi



Find the validation results in the ICE validation section of the Tables Editor tab.
 MSI Editor - PACE, v5.00.msi

MSI Editor - P	ACE_v5.0.0	.msi												-	- 🗆	×
≡ MENU	Package	e Sum	imar	ry	Package Designer	Tables Editor										
Tables			Ap	opvAs	otiation											
_Tables																
Validation				(Iomponent		ComponentId			Directo	ory		Attributes	Condition		
AdminExecuteSec	quence			c	mp03C135474D5E45B896EE	3AB0AE714B7D0	{E76E43B7-CAE7-	45FB-AFED-C4EB5D97	'BF6E}	MSIEDI	ITORROOT		0	<null></null>		^
AdminUlSequence	e			c	mp03CF47FBCA227E610AE7	74C151CF10DC3	{4F992149-F97F-4	FC7-ABD5-7F04F9D4A	1798}	MSIEDI	ITORROOT		0	<null></null>		
AdvtExecuteSequ	ience	-		c	mp048AC21FB63D4133A445	5EA42DC20B0D9	{F0533FD5-4E59-4	43FE-937D-2D8A03F0	D88A}	MSIEDI	TORROOT		0	<null></null>		
AppSearch				c	mp04CA7A47B5488B87FAD	013D7298B7A1D	{F49F8023-C415-4	4C04-BB1F-5DC97CD7	7EEB}	dir33F1	5391917AF4449535	4A87548BF33E	0	<null></null>		
Rippocorcit				c	mp04E8832C7517C8084E2F	ED1A6736D42F	{B7C01448-C0B1-4	4FBF-8E72-C051A364E	BAD}	MSIEDI	ITORROOT		0	<null></null>		
Chaol/Rev				c	mp066B8A5A7452DE33957	A30532F659B23	{A538878C-B279-	49C1-9192-D239E059E	OCE}	MSIGE	NERATORROOT		0	<null></null>		
Спесквох		- 1		c	mp09F7AC2A2FF723969F80	012AC52E69B03	{947D58C5-3623-	4806-B21B-388B13672	BFD}	MSIEDI	ITORROOT		0	<null></null>		
Component		-		c	mp0AD5B5B486F04078260	81628CD86768A	{F4983A24-03A5-	4CCC-9F9E-C813058D	A477}	dirC091	16089BBF98BB0BAD	F683C5CCF0B62	0	<null></null>		
Control				c	mp0B7757366D7F60B8BF5E	DB57F5190E030	{71569ABA-7422-4	4C58-9E48-4AAC16216	5ADA}	dirD0D	367A0F19DB5E0F04	41F02F2E2977E5	0	<null></null>		
ControlCondition				c	mp0E3A26096B7317162A8B	752B2155241B	{8E1AC0DD-8A66-	-4A4D-A79E-A1F980E0)1782}	MSIEDI	ITORROOT		0	<null></null>		
ControlEvent				c	mp0E84CCAE3EDA5717C2B	CD701343CDE4D	{A5861D28-3544-	4BF8-9C98-F932A9737	7D92}	MSIEDI	ITORROOT		0	<null></null>		
CustomAction				c	mp0F4C22DDBBFA1BC0C01	7C970B3D5F35F	(BB107768-37FA-4	2AF-8F59-11C618031D	47}	dir94BB	B67BF783945E9DA7	22AB418C246DA	0	<null></null>		
Dialoo ∢			-	4	mp0F7F406F71906AC759C7	8CB83EB65682	(D6243020-2D75-	499C-RAA1-RCOD8A9	A82FF}	dir0D4	5770F498758A818C	BA62739812738	0	<null></null>		+
✓ Hide empty	tables		✓ E	Enable	linked items tracking fo	or delete/update	operations							Selected rows	s: 1 / Total ro	ws: 425
Row refer	rences	ICE	valid	lation	Undo/Redo history			* * *								
ID	Type	Descr	riptio	'n							Table	Column	Key			P
► ICE03	Warning	String	, a ove	erflow (preater than length permitte	ed in column): Table	: File. Column: Lan	ouage, Kev(s): fil73210	83080A	6AC	File	Language	fil73210	83080A6ACF1	E2B3EB9A	d -
ICE03	Warning	String		erflow (preater than length permitte	ed in column): Table	: File, Column: Lan	guage, Kev(s); fil7B6F0	F811CDF	F9BF.	File	Language	fil7B6F0	F811CDF9BFD	348726814	
ICE03	Warning	Stripe	, e.e.	orflow (preater than length permitte	ed in column): Table	: File Column: Lan	nguage Kev(s): fil1E07C	2DC44F	F96	File	Language	fil1E07C	2DC44FF9677	7FF392BA1	-
ICE03	Warning	Stripe	, ove	orflow (preater than length permitte	ad in column); Table	r File, Column: Lan	nguage Key(s): filRR287		0710	File	Language	filBR287	DA937971901	D17163EB6C	-
ICE03	Warning	String	, 010	offow (greater than length permitte	ad in column); Table	CustomAction	olumo: Target Key(s)	Removal	Web	CustomAction	Target	Remove	Webinstallor	Tache	
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ICE IS	Error	кеуРа	ain to	on Com	ponenc: cmpu4CA/A4/B54	00003/FADUI3D/29	obraib is Directo	ry. urssrisseiel/AF4	449535	4A8	Component	Directory_	cmp040	LA/A4/85488	DO/FADUIS.	
ICE33	warning	Keg k	ey re	egyD8/	45D931A859E3DA2FF9002B	UD88/E5 is used in	an unsupported w	vay. Progid should be n	egistere	a via	Registry	Registry	reg9D8	A5D931A859E	3UA2FF90	
4																- Þ



3.13 Get MSI Package Complexity

• Launch MSI Editor from the desktop or the start menu shortcut.



• Select Open... from MENU.





• Choose an MSI package, complexity of which you want to calculate and click Open.

Open				×
← → × ↑ 🗔 > TH	his PC → Desktop	ٽ ~	Search Desktop	Q
Organize 👻 New fold	ler		: = = : = = =	• 🔳 😮
🖈 Quick access	Name	Date modified 12/4/2018 11:59 AM	Type Windows Installer	Size
Desktop 🖈 🦊 Downloads	译 PACE_v5.0.0.msi	11/29/2018 3:03 AM	Windows Installer	51,391 KB
 Documents Pictures OneDrive This PC Network Homegroup 				
File <u>r</u>	ame: PACE_v5.0.0.msi	~	All Supported Files	; (*.msi;*.mst ∨ Cancel

• Click Recalculate to re-calculate the complexity level including ICE validation errors.





Wait while MSI Editor is validating the package to get number of ICE errors of the opened MSI package.



• Find the complexity level and number of package resources on the Complexity estimation section of the Package Summary tab. To save the complexity estimation results to Excel Workbook (*.XLSX), click the Export results to file.





• Specify a file name and destination location for the file and click Save.

Save As					×
\leftarrow \rightarrow \checkmark \uparrow	> This PC > Desktop >	ٽ ~	Search Desktop		9
Organize 🔻 Ne	ew folder				?
🛧 Quick access	^ Name ^	Date modified	Туре	Size	
Desktop	* Sources	10/3/2018 4:27 PM	File folder		
🖊 Downloads	*				
Documents	*				
Pictures	*				
OneDrive					
💻 This PC					
i Network					
• 4 Homegroup	¥				_
File <u>n</u> ame:	PACE_v5.0.0 - Complexity Estimation Report.xlsx				~
Save as <u>t</u> ype:	Excel Document (*.xlsx)				~
∧ Hide Folders			<u>S</u> ave	Cancel	



3.14 Create Discovery Documentation

Record all your on-screen actions into a nice looking document with screenshots and annotations. Such document could contain installation and configuration instructions and the like.

NOTE In order to take screenshots of application, which is launched with elevated permissions, launch Docu Generator with elevated permissions as well.

• Launch Docu Generator.



In order to launch Docu Generator with elevated permissions, press Shift and select Run as administrator from the context menu of the Docu Generator's shortcut.

• Click Record scenario to start taking series of screenshots and annotations.



Hover your mouse pointer on the Hot Keys button to check which of hot keys are used to take screenshots. Press the Shift key + Left mouse click to take a screenshot of an active window, dialog or screen area. Press Ctrl + Shift + PrintScreen, then click and drag the mouse pointer to select a rectangular area you want to grab. A screenshot is done when you release the



mouse button.				
Docu Generator:	recording			×
≡ MENU				GENERATOR
Hot Keys Start recording Stop recording Pause / Continue Take screenshot Manual screenshot Add annotation	Ctrl + Shift + R Ctrl + Shift + S Ctrl + Shift + P Shift + Left mou Ctrl + Shift + Pri Alt + Ctrl + X	ise click intScreen		
II Pause	Stop	📮 Add Anno	otation	A Hot Keys

• Now, do the actions you want to record into the document. Launch executables, go through dialogs, select options and enter values just telling Docu Generator when to take another screenshot, as described above. A preview of each new screenshot immediately appears in the Recording window.

Doc	u Generator:	recording		×
≡ ме	NU		Do	ocu GENERATOR
<		terren en pres entr entres terre in fananciero data entres terrente in fananciero data entres ter	ter organisation en or	>
4				•
II F	Pause	Stop [Add Annotation	A Hot Keys

• In order to Add annotation, Copy to clipboard or Remove a screenshot, hover mouse pointer on a preview of the screenshot in the Recording window and select the respective function, in the appeared bottom bar.

Docu Generator: r	ecording	×
	Ô	Docu GENERATOR
<	Add annotation	>
II Pause	Stop 🛄 Add Annotation	Hot Keys



• Click Stop to compete recording the scenario and proceed to saving results.

Docu Generator: recording		×
	() P	ocu GENERATOR
Reference in the second	an a	>
4) F
🔲 Pause 🔳 Stop	☐. Add Annotation	A Hot Keys

• Select an output format of the document, saving options and click **Save** to create document. A **Template** is an optional field, described below.

Docu Generator: Save Results		×
Save as		
Word Document MHT/HTML File		
O Docu Generator Scenario		
Template		
C:\Program Files (x86)\PACE Suite\Docu	Generator\Templates\PACE template.dc 👻 Browse	
Options		
\checkmark Save user actions $\frac{2}{3}$	☑ Show started application info ?	
✓ Show mouse position ?	✓ Show content of edited fields ?	
	Save Cancel	

Option	Description	
Save user actions	This option adds the information about names of controls (which were clicked on) and names of the captured windows and dialog boxes to the document.	
Show mouse position	This option adds information about mouse pointer position and highlights it with a red circle on screenshots to the document.	
Show started application info	This option adds information about paths and command line arguments of the launched application to the document.	
Show contents of edited fields	This option adds contents of input fields of the captured windows and dialog boxes to the document.	
Template	Docu Generator supports Microsoft Word (DOT/DOTX) and HTML/MHT templates to be used for document creation. To use a template, specify its file path in the "Save Results" window. In order to mark a position where screenshots and comments are to be placed to, add the following textual placeholder into a template:	
	[SCR] You can specify placeholder [SCR] in the existing table in a template. In this case, the placeholder points to a cell where screenshots should start, while a column to the right of it will be populated with comments. If the placeholder is located outside a table, then a new table for screenshots and comments will be created. A Docu Generator-default table style will be used.	

If a placeholder is not found, screenshots and comments will be appended to the end of the template. You will be warned about this in the Save Results window

NOTE To let you return to your scenario later, Docu Generator always creates DSCN file along with the output file in an output folder.



4 References

4.1 Contact

Product website <u>http://pacesuite.com</u>

Support email pace-support@infopulse.com

Support Portal http://pacesuite.com/support

Educational videos YouTube channel

4.2 Social Networks



