GETTING STARTED

PACE Suite 5.3.1

Document version: 20190917

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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	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	MST is a settings file used by Microsoft Windows Installer, a component of the Windows 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	APPX is the file format used to distribute and install Universal Windows Platform (UWP) apps 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.
VM	Virtual machine.
PC	Personal computer



2 PACE Suite 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
• QUALITY APPROVER	Test MSI (+MST) package and its apps for compliance with the <u>Desktop App Certification Program</u> in an unattended mode. This will check the package safety, compatibility and readiness for deployment. For more information, see <u>Windows Desktop</u> <u>app tests</u> . Test an MSIX/APPX package (bundle) and its apps against the Microsoft Store requirements in an unattended mode. For more information on the tests, see <u>Windows Store App tests</u> and <u>Windows Desktop Bridge app tests</u> .
• DOCU GENERATOR	Automatically record your on-screen actions into a nice- looking document with screenshots and annotations



3 Installation & Configuration

3.1 Software Prerequisites

Ensure that a target system contains necessary software prerequisites:

Privileges	Administrative privileges on the system.
	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.
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.
	Microsoft .NET Framework 4.7.2 (<u>https://dotnet.microsoft.com/download/dotnet-</u> <u>framework-runtime</u>) or higher.
	Automated package testing with Quality Approver requires a virtual machine with Windows 10 version 1803 or newer.
OS	NOTE Building Universal Windows Platform app packages (MSIX/APPX) is available under Windows 10 or Windows Server 2016 and newer.
	Windows or Windows Server OS that supports .NET 4.7.2 (<u>https://docs.microsoft.com/en-us/dotnet/framework/get-started/system-requirements</u>) or higher.

3.2 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.



3.3 Install PACE Suite

PACE Suite installation checks that your license is compatible with this version of PACE Suite and that your system meets the minimum software requirements. 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	or click Change to c	hoose another	PH	E
Install PACE Suite to:				
C:\Program Files (x86)\PACE Suite\				
<u>C</u> hange				
	<u>B</u> ack	<u>N</u> ext	Cance	el

• 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	_



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

PACE Suite Setup Advanced options Please choose advanced options	
 Install MSI Generator Install MSI Editor Install Docu Generator Install Quality Approver Associate with *.mgp files Associate with *.appv files Integrate in context menu 	
	Back Next Cancel

• Click Install.

al DACE Suite Setur				\sim
De PACE Suite Setup		_		^
Ready to install PACE Suite		0	PA	CE
Click Install to begin the installation. Click Back installation settings. Click Cancel to exit the wi	to review or change a zard.	ny of yo	bur	
<u>R</u> ac			Cano	ei



Wait until the installation is completed.

Γ.		Cotup				1	\sim
	Installing	PACE Suite					ĉ
	Instanny			_			C
	Please wait	while the Setup Wiza	rd installs PACE	Suite.			
	Status:	Updating compone	nt registration				
_			-	Back	Next	Cancel	
					_		ð

Click Finish. .

PACE Suite Setup		_		×
0	Completed the PACE Sui	te Setu	ıp Wiza	rd
PACE	Click the Finish button to exit the Se	tup Wizard	d.	
	<u>B</u> ack Eini	sh	Canc	el

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

Docu





3.4 Activate 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**, **Quality Approver** and **Docu Generator**, you have to activate all these tools separately.

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



• Click Enter the license key.

© 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 <u>email</u> or visit <u>pacesuite.com</u>	
	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.

l MSI Editor: About		:
E	PACE Suite 4.7.0.7 Part of PACE Suite Copyright © Infopulse 2018 License Agreement Product website Support	
License Info:		Ruy Now
Product Key:		Buy Now
	Register Close	

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





3.5 Configure VM for Testing

PACE Suite - Quality Approver is a tool for automated package testing. Quality Approver runs locally and interacts with local and remote pre-configured virtual machines (VM) for executing <u>Windows App</u> <u>Certification Kit</u>. The Kit tests your MSI/MSIX/APPX package and its apps in an unattended mode. The use of virtual machines is required to eliminate possible negative effects of the installation/removal failure. Virtual machine configuration is a one-time action that should be performed manually by the user. Afterwards, the configured virtual machine could be used for automated package testing any time.

A simplified interaction model of Quality Approver:



The following describes the supported virtualization solutions, requirements and configuration instructions.

SUPPORTED VIRTUAL MACHINE LOCATIONS

Automated package testing could be run on a virtual machine, which is located on:

- Remote VMware ESXi See requirements and configuration instructions in section 3.5.1
- Remote Microsoft Hyper-V See requirements and configuration instructions in section 3.5.2
- Local Oracle VirtualBox See requirements and configuration instructions in section 3.5.3
- Local host as a VM (Run testing on the same host, where Quality Approver is installed) See requirements and configuration instructions in section 3.5.4



3.5.1 VMware ESXi

Quality Approver supports automated package testing on virtual machines, hosted on a remote VMware ESXi server. In order to start using VMware ESXi virtual machines, perform the following steps.

STEP 1 – FULFILL THE REQUIREMENTS TO THE HYPERVISOR

- VMware ESXi server version is 5.0 or newer
- Your account on VMware ESXi has either administrative role or role with all of the following privileges
 - All Privileges > Virtual machine > Guest operations > Guest Operation Program Execution
 - All Privileges > Virtual machine > Guest operations > Guest Operation Modifications
 - All Privileges > Virtual machine > Guest operations > Guest Operation Queries
 - All Privileges > Virtual machine > Interaction > Power on
 - All Privileges > Virtual machine > Snapshot management > Revert snapshot

STEP 2 – FULFILL THE REQUIREMENTS TO THE VIRTUAL MACHINE

• The virtual machine is running Windows 10 version 1803 or newer Recommendation: Use a clean Windows OS with a minimum set of preinstalled software in order to minimize the negative impact on testing results.

Check the Windows version by running winver command (Win + R).



• The user has the administrative privileges The administrative provileges are required by Windows App Certification Kit for package testing.





STEP 3 – CONFIGURE THE VIRTUAL MACHINE

• Power on the virtual machine

Power on the virtual machine and login into the system with the user account which has the administrative privileges.

• Install VMware Tools on the virtual machine

VMware Tools is a suite of utilities that enhances the performance of the virtual machine's guest operating system and improves management of the virtual machine. Usually, these tools are already installed on virtual machines, which are hosted on VMware ESXi. If the tools are installed, you could either check their status on the Summary tab of vShpere client or find the VMware tools icon in the taskbar notification area.



If tools are not installed, see Installing and upgrading VMware Tools in vSphere online article.

Install the Windows App Certification Kit on the virtual machine
 Windows App Certification Kit, a part of Windows SDK, is used for package testing. Download and run the Windows 10 SDK installer on the virtual machine and install the Windows App Certification Kit and Application Verifier For Windows

Windows Software Development Kit - Windows 10.0.18362.1	×
Select the features you want to d Click a feature name for more information.	ownload
Windows Performance Toolkit	Windows App Certification Kit
Debugging Tools for Windows	
Application Verifier For Windows	certify apps before onboarding to the Windows Store. The
.NET Framework 4.8 Software Development Kit	Windows App Certification Kit supports the following app
☑ Windows App Certification Kit	types: • Windows 10 apps
Windows IP Over USB	Windows desktop applications
MSI Tools	Windows 8 apps Windows Phone apps
Windows SDK Signing Tools for Desktop Apps	
Windows SDK for UWP Managed Apps	Requires the following features:
Windows SDK for UWP C++ Apps	
Windows SDK for UWP Apps Localization	Application Verifier For Windows
Windows SDK for Desktop C++ x86 Apps	
Windows SDK for Desktop C++ amd64 Apps	[]
Windows SDK for Desktop C++ arm Apps	Estimated disk space required: 52.8 MB
Windows SDK for Desktop C++ arm64 Apps	Disk space available: 13.0 GB
	Back Download Cancel

• Run PACE Tuner on the virtual machine

PACE Tuner is a tool that configures the virtual machine for running the automated package testing. Copy the PACE Tuner installer from your system, where PACE is installed, to the virtual machine and complete the installation on the virtual machine. PACE Tuner installer could be found at C:\Program Files (x86)\PACE Suite\Quality Approver\PACE Tuner\ESXi\VMware ESXi –

<u>PACE Tuner.msi</u> (the path may differ, if you have changed the default PACE Suite installation directory).

NOTE: PACE Tuner changes the security features of the operating system and must not be run on your work station (PC). The uninstall mechanism of PACE Tuner installer does not restore the changed security settings. Run PACE Tuner only on the virtual machine, which can be restored to the previous state.

For VMware ESXi virtual machine, PACE Tuner configures the following:

- Enables <u>Developer mode</u>
 Windows App Certification Kit requires enabling this system feature.
- Enables automatic login in Windows
 Windows App Certification Kit also requires a UI session for the proper testing.
 Automatic login secures this UI session.
- o Disables User Account Control (UAC)

Windows App Certification Kit requires the administrative privileges for running. Disabling the User Account Control (UAC) allows to run Windows App Certification Kit with the administrative privileges remotely in an unattended mode.

 Disables non-essential services (Update, Search, Offline files, Security center, Diagnostic policy)

These non-essential services produce lots of system noise that could influence the testing results.

- Installs PACE broker service
 The PACE broker supports communication between Quality Approver and the virtual machine.
- Shut down the virtual machine

Shut down the operating system of the virtual machine. For this, select Start > Power > Shut down.



• Take a snapshot of the configured virtual machine

Take a snapshot of the current state of virtual machine. Further, the virtual machine will be automatically restored to this snapshot before and after testing process. For more details, see <u>Take a Snapshot in the vSphere Web Client</u> or <u>Take a Snapshot in the vSphere Client</u>.



STEP 4 – ADD THE CONFIGURED VIRTUAL MACHINE TO THE LIST IN QUALITY APPROVER

Launch Quality Approver

Launch Quality Approver app on your computer. This application will run the tests on configured virtual machines.



• Add the configured virtual machine

Click **Configure new VM** and complete the wizard steps. Select the proper virtual machine location, specify connection settings, virtual machine name, configured snapshot and so on. The wizard connects to the specified virtual machine, checks the prerequisites and only then adds this virtual machine to the list of Quality Approver.

Quality Approver - Configure	new VM		- 🗆 X	
	•			
	Configuration Connect	tion Identification Verification	n	
	🖲 Quality Approver - Configu	re new VM	— 🗆 X	
Virtual machine cor Specify the location of virtual				
Virtual machine location		Quality Approver - Configure new V	M – 🗆 X	
Remote VMware ESXI	Compation anti-			
Prerequisites	Specify the connection det	Cd	© Quality Approver - Configure new VM	– 🗆 X
VMware ESXi server	Server address		°	
Your account on VM	172.16.0.1	Virtual machine identif	Configuration Connection Identification Verification	
All Privileges > Virtual All Privileges > Virtual All Privileges > Virtual	User name test_user	Virtual machine name		
All Privileges > Virtual All Privileges > Virtual	NOTE The entered passwo	Testing snapshot/checkpoint	Virtual machine verification	
The virtual machine i		pace tuner	Kerning the virtual machine Checking the prerequisites	
Virtual machine config		Log in credentials	EVENT LOG	Open log
Install WMware Teel		Vmuser	Elapsed Task	Status
		NOTE The entered password will b	00:00:00 Connecting to the virtualization solution 00:00:11 Checking the virtual machine snapshot	Completed In progress
		not share this folder with anyone.	00:00:11 Restoring the virtual machine to the snapshot	In progress
l				
			Elapsed time	
			000013	Cased
			Finish	Cancel



3.5.2 Microsoft Hyper-V

Quality Approver supports automated package testing on virtual machines, hosted on a remote Microsoft Hyper-V server. In order to start using Microsoft Hyper-V virtual machines, perform the following steps.

STEP 1 – FULFILL THE REQUIREMENTS TO THE HYPERVISOR

- Windows Server 2012 R2 or newer with the Hyper-V role
- Windows Server user has administrative privileges

STEP 2 – FULFILL THE REQUIREMENTS TO THE VIRTUAL MACHINE

• The virtual machine is running Windows 10 version 1803 or newer Recommendation: Use a clean Windows OS with a minimum set of preinstalled software in order to minimize the negative impact on testing results.

Check the Windows version by running winver command (Win + R).



• The user has the administrative privileges The administrative provileges are required by Windows App Certification Kit for package testing.

STEP 3 – CONFIGURE THE HYPERVISOR

Give virtual machines access to the physical network
 Quality Approver that you launches on your computer must be able to connect to the remote
 virtual machine over the network to run and control the package testing process. So, both
 your computer and that virtual machine must be located in the same network. By default,

Hyper-V virtual machines have access to the physical network. Check that your Virtual Network Switch on Hyper-V server is configured to the External connection type. For details, see <u>Create a virtual switch for Hyper-V virtual machines</u> online article.

• (For a third party firewall only) Allow incoming WMI traffic Quality Approver uses <u>Windows Management Instrumentation</u> (WMI) on the hypervisor to turn on/off the required virtual machine, get its status, and restore it to the specified checkpoint. By default, Windows Firewall of Hyper-V server allows WMI traffic. If you are using a third party firewall, ensure that incoming WMI traffic is allowed.

STEP 4 – CONFIGURE THE VIRTUAL MACHINE

- Power on the virtual machine Power on the virtual machine and login into the system with the user account which has the administrative privileges.
- Install the Windows App Certification Kit on the virtual machine
 Windows App Certification Kit, a part of Windows SDK, is used for package testing. Download and run the Windows 10 SDK installer on the virtual machine and install the Windows App Certification Kit and Application Verifier For Windows.

😸 Windows Software Development Kit - Windows 10.0.18362.1	- 🗆 X
Select the features you want to c Click a feature name for more information.	lownload
Windows Performance Toolkit	Windows App Certification Kit
Debugging Tools for Windows Application Verifier For Windows .NET Framework 4.8 Software Development Kit Windows App Certification Kit Mindows IP Over USB MSI Tools Windows SDK Signing Tools for Desktop Apps	Windows App Certification can be used to pre- certify apps before onboarding to the Windows Store. The Windows App Certification Kit supports the following app types: Windows 10 apps Windows desktop applications Windows 8 apps Windows Phone apps
 Windows SDK for UWP Managed Apps Windows SDK for UWP C++ Apps Windows SDK for UWP Apps Localization Windows SDK for Desktop C++ x86 Apps Windows SDK for Desktop C++ amd64 Apps 	Requires the following features: Application Verifier For Windows
Windows SDK for Desktop C++ arm Apps	Estimated disk space required: 52.8 MB Disk space available: 13.0 GB
	<u>B</u> ack <u>D</u> ownload <u>C</u> ancel

• Run PACE Tuner on the virtual machine

PACE Tuner is a tool that configures the virtual machine for running the automated package testing. Copy the PACE Tuner installer from your system, where PACE is installed, to the virtual machine and complete the installation on the virtual machine. PACE Tuner installer could be found at <u>C:\Program Files (x86)\PACE Suite\Quality Approver\PACE Tuner\HyperV\Microsoft Hyper-V – PACE Tuner.msi</u> (the path may differ, if you have changed the default PACE Suite



installation directory).

NOTE: PACE Tuner changes the security features of the operating system and must not be run on your work station (PC). The uninstall mechanism of PACE Tuner installer does not restore the changed security settings. Run PACE Tuner only on the virtual machine, which can be restored to the previous state.

For Hyper-V virtual machine, PACE Tuner configures the following:

Enables <u>Developer mode</u>
 Windows App Certification Kit requires enabling this system feature.

o Enables automatic login in Windows

Windows App Certification Kit also requires a UI session for the proper testing. Automatic login secures this UI session.

o Enables Windows Firewall exception

Quality Approver runs and controls the package testing process on the Hyper-V virtual machine remotely over the network and requires the following firewall exceptions to be enabled:

Allow ICMP echo requests and open 445 port

Used for transferring package sources to the remote virtual machine with the use of the Administrative Share (like \\computername\C\$). NOTE If you are using a third party firewall on the virtual machine, ensure that ICMP echo requests are allowed and 445 port is opened.

Allow incoming WMI traffic

Used to start and control the process of package testing remotely. NOTE If you are using a third party firewall on the virtual machine, ensure that incoming WMI traffic is allowed.

o Disables <u>User Account Control</u> (UAC)

Windows App Certification Kit requires the administrative privileges for running. Disabling the User Account Control (UAC) allows to run Windows App Certification Kit with the administrative privileges remotely in an unattended mode.

Disables User Account Control (UAC) remote restrictions

For transferring package to the remote virtual machine with the of the Administrative Share (like \\computername\C\$), it is not enough to add firewall exceptions such as Allow ICMP echo requests and open 445 port, but also it is needed to disable UAC remote restrictions. For details, see <u>Description of User Account Control and remote restrictions</u> online article.

 Disables non-essential services (Update, Search, Offline files, Security center, Diagnostic policy)

These non-essential services produce lots of system noise that could influence the testing results.

Installs PACE broker service
 PACE broker service serves communication between Quality Approver and virtual machine.



Shut down the virtual machine
 Shut down the operating system of the virtual machine. For this, select Start > Power > Shut down.

		Sleep
þ	File E	Shut down
ŝ	Settin	Restart
↺	Power	
	All ap	ps

• Create a checkpoint of the configured virtual machine Create a checkpoint of the current state of virtual machine. Further, the virtual machine will be automatically restored to this checkpoint before and after testing process. For more details, see <u>Work with Checkpoints</u>.

STEP 5 – ADD THE CONFIGURED VIRTUAL MACHINE TO THE LIST IN QUALITY APPROVER

Launch Quality Approver

Launch Quality Approver app on your computer. This application will run the tests on configured virtual machines.



• Add the configured virtual machine

Click **Configure new VM** and complete the wizard steps. Select the proper virtual machine location, specify connection settings, virtual machine name, configured checkpoint and so on. The wizard connects to the specified virtual machine, checks the prerequisites and only then



Quality Approver - Configure	Configuration Connect	tion Identification Verification	– o x	
/irtual machine con pecify the location of virtual	😢 Quality Approver - Configu	re new VM Configuration Connection	- C X	
rtual machine location Remote VMware ESXI		Quality Approver - Configure new VI		×
Prerequisites VMware ESXi server Vall Privileges > Virtual All Privileges > Virtual	Specify the connection det Server address 172.16.0.1 User name test_user NOTE The entered passwo not share this folder with a	Cc Virtual machine identif Virtual machine name PPAS-C-Win10-1803-x64-06 Testing snapshot/checkpoint pace tuner Log in credentials	Quality Approver - Configure new VM Configuration Connection Identification Verif Virtual machine verification Running the virtual machine Checking the prerequisites EVENT LOG	ication
The virtual machine is virtual machine is virtual machine config virtual machine is virtual machine is virtual machine. It was a virtual virtua virtual vir		User name vmuser NOTE The entered password will b not share this folder with anyone.	Elapsed Task 000000 Connecting to the virtualization solution 00:00:11 Checking the virtual machine snapshot 00:00:11 Restoring the virtual machine to the snapshot	Status Completed In progress In progress

3.5.3 Oracle VirtualBox

Quality Approver supports automated package testing on virtual machines, hosted on a local Oracle VirtualBox hypervisor. In order to start using Oracle VirtualBox virtual machines, perform the following steps.

STEP 1 – FULFILL THE REQUIREMENTS TO THE HYPERVISOR

• Oracle VirtualBox version is 6.0 or newer

STEP 2 – FULFILL THE REQUIREMENTS TO THE VIRTUAL MACHINE

• The virtual machine is running Windows 10 version 1803 or newer Recommendation: Use a clean Windows OS with a minimum set of preinstalled software in order to minimize the negative impact on testing results.



Check the Windows version by running winver command (Win + R).



• The user has the administrative privileges The administrative provileges are required by Windows App Certification Kit for package testing.

STEP 3 – CONFIGURE THE VIRTUAL MACHINE

- Power on the virtual machine Power on the virtual machine and login into the system with the user account which has the administrative privileges.
- Install VirtualBox Guest Additions on the virtual machine
 The VirtualBox Guest Additions consist of device drivers and system applications that optimize
 the operating system for better performance and usability. If VirtualBox Guest Additions are
 installed, you could find the respective icon in the taskbar notification area.



If additions are not installed, see <u>Installing the VirtualBox Guest Additions</u> online article.

• Install the Windows App Certification Kit on the virtual machine Windows App Certification Kit, a part of Windows SDK, is used for package testing. Download and run the <u>Windows 10 SDK</u> installer on the virtual machine and install the Windows App



Select the features you want to o	download
Windows Performance Toolkit	Windows App Certification Kit
 Debugging Tools for Windows Application Verifier For Windows .NET Framework 4.8 Software Development Kit Windows App Certification Kit Windows IP Over USB MSI Tools Windows SDK Signing Tools for Desktop Apps Windows SDK for UWP Managed Apps Windows SDK for UWP C++ Apps Windows SDK for UWP Apps Localization Windows SDK for Desktop C++ x86 Apps Windows SDK for Desktop C++ amd64 Apps 	Windows App Certification can be used to pre- certify apps before onboarding to the Windows Store. The Windows App Certification Kit supports the following app types: Windows 10 apps Windows desktop applications Windows 8 apps Windows Phone apps Requires the following features: Application Verifier For Windows
Windows SDK for Desktop C++ arm Apps	Estimated disk space required: 52.8 MB

• Run PACE Tuner on the virtual machine

PACE Tuner is a tool that configures the virtual machine for running the automated package testing. Copy the PACE Tuner installer from your system, where PACE is installed, to the virtual machine and complete the installation on the virtual machine. PACE Tuner installer could be found at <u>C:\Program Files (x86)\PACE Suite\Quality Approver\PACE Tuner\Virtualbox\Oracle VirtualBox – PACE Tuner.msi</u> (the path may differ, if you have changed the default PACE Suite installation directory).

NOTE: PACE Tuner changes the security features of the operating system and must not be run on your work station (PC). The uninstall mechanism of PACE Tuner installer does not restore the changed security settings. Run PACE Tuner only on the virtual machine, which can be restored to the previous state.

For Oracle VirtualBox virtual machine, PACE Tuner configures the following:

- Enables <u>Developer mode</u>
 Windows App Certification Kit requires enabling this system feature.
- Enables automatic login in Windows
 Windows App Certification Kit also requires a UI session for the proper testing.
 Automatic login secures this UI session.
- o Disables <u>User Account Control</u> (UAC)

Windows App Certification Kit requires the administrative privileges for running. Disabling the User Account Control (UAC) allows to run Windows App Certification Kit with the administrative privileges remotely in an unattended mode.



 Disables non-essential services (Update, Search, Offline files, Security center, Diagnostic policy)

These non-essential services produce lots of system noise that could influence the testing results.

Installs PACE broker service
 PACE broker service serves communication between Quality Approver and virtual machine.

• Shut down the virtual machine

Shut down the operating system of the virtual machine. For this, select Start > Power > Shut down.

	Sleep
🕞 File E	Shut down
លঃ Settir	Restart
🖒 Powe	r
宦 All ap	ops

• Take a snapshot of the configured virtual machine Take a snapshot of the current state of virtual machine. Further, the virtual machine will be automatically restored to this snapshot before and after testing process. For more details, see Taking, Restoring, and Deleting Snapshots.

STEP 4 – ADD THE CONFIGURED VIRTUAL MACHINE TO THE LIST IN QUALITY APPROVER

Launch Quality Approver

Launch Quality Approver app on your computer. This application will run the tests on configured virtual machines.



• Add the configured virtual machine

Click **Configure new VM** and complete the wizard steps. Select the proper virtual machine location, specify connection settings, virtual machine name, configured snapshot and so on. The wizard connects to the specified virtual machine, checks the prerequisites and only then





3.5.4 Local host

Quality Approver supports automated package testing on the local host, which is already a virtual machine. NOTE It is very important that the local host must be a virtual machine, which could be manually restored to the previous state before and after the testing. In order to start using local host for testing, perform the following steps.

STEP 1 – FULFILL THE REOUIREMENTS TO THE LOCAL HOST

This host is a virtual machine, running Windows 10 version 1803 or newer • Recommendation: Use a clean Windows OS with a minimum set of preinstalled software in order to minimize the negative impact on testing results.



Check the Windows version by running winver command (Win + R).



• The user has the administrative privileges The administrative provileges are required by Windows App Certification Kit for package testing.

STEP 2 – CONFIGURE THE LOCAL HOST

 Install the Windows App Certification Kit on the local host Windows App Certification Kit, a part of Windows SDK, is used for package testing. Download and run the <u>Windows 10 SDK</u> installer on the local host and install the Windows App Certification Kit and Application Verifier For Windows.



• Run PACE Tuner on the local host

PACE Tuner is a tool that configures the local host for running the automated package testing. Run and complete the PACE Tuner installation on the local host. PACE Tuner installer could be found at <u>C:\Program Files (x86)\PACE Suite\Quality Approver\PACE Tuner\Localhost\Localhost</u> <u>— PACE Tuner.msi</u> (the path may differ, if you have changed the default PACE Suite installation directory).

NOTE: PACE Tuner changes the security features of the operating system and must not be run on your work station (PC). The uninstall mechanism of PACE Tuner installer does not restore the changed security settings. Run PACE Tuner only on the virtual machine, which can be restored to the previous state.

For local host, PACE Tuner configures the following:

- Enables <u>Developer mode</u>
 Windows App Certification Kit requires enabling this system feature.
- o Disables User Account Control (UAC)

Windows App Certification Kit requires the administrative privileges for running. Disabling the User Account Control (UAC) allows to run Windows App Certification Kit with the administrative privileges in an unattended mode.

 Disables non-essential services (Update, Search, Offline files, Security center, Diagnostic policy)

These non-essential services produce lots of system noise that could influence the testing results.

STEP 3 – ADD THE CONFIGURED LOCAL HOST TO THE LIST IN QUALITY APPROVER

• Launch Quality Approver

Launch Quality Approver app on the local host. This application will run the tests locally.



• Add the configured local host

Click **Configure new VM** and complete the wizard steps. Select the proper virtual machine location and other settings. The wizard checks the prerequisites and only then adds this local



Quality Approver - Configure	Configuration	ion Identification Varification	– 🗆 X		
	Quality Approver - Configure	re new VM	— — X		
/irtual machine con pecify the location of virtual irtual machine location	ſ	Configuration Connection	Identification Verification		
Remote VMware ESXI	Connection action	Quality Approver - Configure new Vi	°		
Prerequisites	Specify the connection det	Cd	Quality Approver - Configure new VM		- 0 2
Vour account on VM All Privileges > Virtual All Privileges > Virtual Virtual machine confid	User name test_user	'2.16.0.1 Virtual machine identi rname Virtual machine name st_user PPAS-C-Win10-1803-x64-06 TE The entered passwo Testing snapshot/checkpoint t share this folder with a pace tuner Log in credentials Log in credentials	Configuration Connection	Identification Verification	
All Privileges > Virtual All Privileges > Virtual The virtual machine Virtual machine config	NOTE The entered passwo not share this folder with a	PPAS-C-Win10-1803-x64-06 Testing snapshot/checkpoint pace tuner Log in credentials	Virtual machine verification		0.000 100
All Privileges > Virtual All Privileges > Virtual The virtual machine i Virtual machine config	NOTE The entered passwo not share this folder with a	PPAS-C-Win10-1803-x64-06 Testing snapshot/checkpoint pace tuner Log in credentials User name	Virtual machine verification Running the virtual machine Checking the prerequisites EVENT LOG Elapsed Task		Open log Status
All Privileges > Virtual All Privileges > Virtual The virtual machine Virtual machine config Level Withurse Teal	NOTE The entered passwo not share this folder with a	PPAS-C-Win10-1803-x64-06 Testing snapshot/checkpoint pace tuner Log in credentials User name vmuser NOTE The entered password will b not share this folder with anyone.	Virtual machine verification Running the virtual machine Checking the prerequisites EVENT LOG Elapsed Task 000000 Connecting to the virtualization solution 000011 Checking the virtual machine snapshot 000011 Restoring the virtual machine to the snapshot		Open log Status Completed In progress In progress

• Shut down the virtual machine Shut down the operating system of the local host. For this, select Start > Power > Shut down.



• Take a snapshot (checkpoint) of the configured state Take a snapshot (checkpoint) of the current state of local host. Further, the local host must be manually restored to this snapshot (checkpoint) before and after testing process.



4 How-To Manuals

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

4.1 Create MSI

Choose a scenario that better suits your needs:

- Create MSI from Scratch, described in section 4.1.1 Create a blank MSI in MSI Editor, add folders, files, registry entries and shortcuts directly to the MSI package.
- Repackage EXE to MSI, described in section 4.1.2 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.
- Automate Repackaging EXE to MSI, described in section 4.1.3 Use command line options of MSI Generator to automate repackaging of a source installation (EXE, MSI, VBS, CMD, etc.) into MSI package.
- Capture System Changes to MSI, described in section 4.1.4 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.

4.1.1 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.



-		CCL		\sim	* *	1.4
Г	-					
	E	MSL	Edit	or		

■ MENU	
New MSI	Ctrl + N
New MST	
Open	Ctrl + O
Open recent	•
Apply MCT to MCI	
Apply MST to MSL	
Remove WIST from WIST	
Save	Ctrl + S
Save as	
Create MSP against original M	ASI
Generate nackade 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					Х
$\leftarrow \rightarrow \land \uparrow$	→ This PC → Documents → MSI Editor	5 ~	Search MSI Editor	r	P
Organize 👻 Ne	ew folder			== -	?
🖈 Quick access	▲ Name	Date modified	Туре	Size	
📃 Desktop	*	No items match your search.			
👆 Downloads	*				
🔮 Documents	*				
Pictures	*				
i OneDrive					
💻 This PC					
💣 Network					
•4 Homegroup	¥				
File <u>n</u> ame:	MyPackage1.msi				\sim
Save as <u>t</u> ype:	Windows Installer Database (*.msi)				~
 Hide Folders 			<u>S</u> ave	Cancel	

- For managing package resources and settings, refer to the respective section of this document:
 - For managing Application Details see section 4.7.2
 Manage product name, version, language and manufacturer of the application.
 - For managing Package IDs see section 4.7.3
 Manage product, upgrade and package codes.



- For managing Files and Folders see section 4.7.4
 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 4.7.5 Review package shortcuts, add new or import existing shortcuts, manage their properties.
- For managing Registry see section 4.7.6
 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 4.7.7 Manage custom and standard actions of the package, add new one to run scripts, EXE, etc.
- For managing Drivers see section 4.7.8
 Review the package device drivers, modify and add new ones.
- For managing Features and Components see section 4.7.9
 Review the feature-component structure and resources, linked with components. Add new features, components and manage their properties.
- For managing ARP Appearance see section 4.7.10
 Control how the package will be displayed in the App list (Add & Remove Programs).
- For managing Upgrades see section 4.7.11
 Manage the package upgrade settings to automatically upgrade previous MSI packages.
- For managing MSI Properties see section 4.7.12
 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 4.7.13
 Manage Summary Information of the opened MSI/MST.
- For managing MSI Tables see section 4.7.14
 Add, import, drop MSI tables.
- For managing Merge Modules, described in section 4.7.15 Create new MSM or importing existing MSM to the package.


For saving your package, select Save from the MENU.



4.1.2 Repackage EXE 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 Setti nethod	ings Insta	Illation (Completion			
Prepare the computer for cap	turing						
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 virtu your source installati	al machine with on. Also, in case	all non-esse of any failun	ntial processes sto e, you will be able	opped i e to resi	n order tore the	to
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 soft	tware before captur	ring.				
Refresh				Review the capturin	g recom	mendatio	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			



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

Capture installation							×
	Prepare computer	Capturing method	Settings	Installation	Completion		
Settings							
Package name							
PKG-190814-140719							
Exclusion filters			Scannin	g areas			
Apply the following f Extended Standard	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 instal	llation								×
	C				_				
	Prep comp	pare puter	Capturing method	Settings	Installation	Completion			
Install you	ır applicati	ons no	w						
Now is the time the "Select and Select and	e to run installer I run" functiona I run	rs of the ap ality.	oplications, which	h you want to ca	pture. You can ru	n installers either r	manually	or usin	3
State	Copied Na	ame							
Note that it is r	not recommende	ed to repa	ckaqe MSI to M	SI. If you have in	stantly detected a	nd copied MSI ins	tallations	s, cancel	1
capturing and Once the insta	switch to custon llation is comple ed the installatic	mizing ther eted, select on	n via a transforn : "I have finished	n in Editor. the installation"	and click "Next".				
					K Back	Next >		Cancel	

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

Open								×
	→ Thi	s PC > Downloads		~ Ō	Search Down	loads		P
Organize 🔻 No	ew folde	r				-		?
🛧 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	Applica	tion	33,209	КВ	
	File <u>n</u> a	me: Firefox Setup.exe		~	Installer files <u>O</u> pen	; (*.*)	Cancel	~

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

👸 Moz	illa Firefox Setup			_		×					
		Wol	come to the	Mozilla Fire	fox						
	🐻 Mozilla Fire	efox Setup			_		×				
	Setup Type										
	choose seu	Mozilla Fir	efox Setup				_	• ×			
	Choose the	Ready to st	art installing Firefox	v Satur						1	
	● <u>Standar</u> Firefox	Firefox will I	Installing	x setup				_			
	O Custom	C:\Program	Please wait whi	ile Mozilla Firefox is b	peing installe	ed.					~
	You ma		Installing Firefo	Mozilia Firefo	x Setup	C	omploi	ing the l	– Mazilla Eiro	fov	~
				-1		S	etup W	ling the i lizard		IUX	
						Mo	zilla Firefo	x has been ins	talled on your com	puter.	
						Clic	k Finish to	close this wize	ard.		
		Click Install					<u>L</u> aunch Fir	efox now			
	L										
								< <u>B</u> ack	Einish	Can	cel

• 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 4.7). 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 ca	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	
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 5.3.1 - Getting Started

📕 🔄 📕 🖛 🛛 C.'	\Progran	n Files (x86)							- [×
File Home	Share	View									~ 🕐
$\leftarrow \rightarrow \cdot \uparrow$	> This	s PC → Local Disk (C:) →	Program Files (x86) >				~	ē	Search Program Files (x86)	ρ
		Name	^	Date modified	Tvi	pe	Size				~
📌 Quick access		Comment Film		7/16/2016 2:47 DM	1 21	. (-1.1					
E Desktop	*	Internet Explorer		7/10/2010 2:47 PIVI	FIIE	e folder					
🖊 Downloads	*	Microsoft Analysis	Services	2/20/2017 1:34 PW	File	e folder					
Documents	*	Microsoft Office	Services	2/17/2017 3:40 PM	File	e folder					
Pictures	*	Microsoft SOL Serv	er	2/17/2017 3:42 PM	File	e folder					
		Microsoft.NET	-	2/17/2017 3:44 PM	File	e folder					
a OneDrive		Mozilla Firefox		0/10/2017 /-05 DM	File	e folder					
💻 This PC		Mozilla Maintenan	Open			folder					
A Maturali		Notepad++	Open in new wind	ow		folder					
		PACE Suite	Pin to Quick acces	is		folder					
🔩 Homegroup		Uninstall Information	7-Zip		>	folder					
		VMware	CRC SHA		>	folder					
		Windows Defender	🕂 Scan with Window	/s Defender		folder					
		Windows Kits	Share with		>	folder					
		Windows Mail	Restore previous v	ersions		folder					
		Windows Media Pla	Include in library		>	folder					
		Windows Multime	Pin to Start			folder					
		Windows NI	Condito		_	tolder					
		Windows Photo Vie	Send to		_	folder					
		WindowsPortable	Cut			folder					~
21 items 1 item s	elected	WindowsFowerShe	Сору			Toldel					
			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	
ALL APPLICATION PACKAGES	^
ALL RESTRICTED APPLICATION PACKAGES	
Secretary 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	ly

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	(\ \ dministertam \	
Sers (WIN10X64-VM\Users))	
Sea TrustedInstaller		~
<		>
	A <u>d</u> d	<u>R</u> emove
Permissions for Users	Allow	Deny
Full control		□ ^
Modify	\square	
Read & execute	\sim	
List folder contents	~	
Read		✓
OK	Caraal	Anabi

• 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	on							
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	5
 Customize p Stop now ar 	roject in editor Id 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: Permissions:	1							
Printers:	0							
				< Back	Finish		Cancel	
				, oden)	2011001	

• 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 in	stallation — 🗌	~
	Prepare Capturing Settings Installation Completion computer method	
omple	tion	
e following	files could not be copied to the project folder because they are locked or missing:	
itate	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 restor	re missing and unlock locked files and then click "Retry". Click "Finish" to proceed creating the project and skip	
pying loc	ked 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, 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 - PKG-19043	0-144511.mgp						-	\Box \times
≡ MENU Package	Files Sho	rtcuts\Apps	Registry	System resources				
Files and folders					Inc	luded: 124 files (197,6	MB) 💙 Coll	apse all
Name					Туре	Size	State	
🖃 🔤 C:					Folder		Changed	
🖃 📄 Program Files (x	86)				Folder		Changed	
🕀 🔚 🔍 Mozilla F	irefox				Folder		Added	
🕀 🔚 Mozilla Mair	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 🖹	Properties	E2	_		LOG1	16,0 MB	Changed	
SY:	Move to folder	12			LOG1	1004,0 KB	Changed	
🖃 🔛 SleepS	Fuelvele	Del			Folder		Changed	
Us	Exclude	Dei			ETL	320,0 KB	Changed	
🖃 🔜 winevt	Add to exclusion	n filter	·		Folder		Changed	
E Lo	Delete	Shift+De	2		Folder		Changed	
	APPV virtualizati	on level	•		Folder		Changed	
Add Evolution	Ide							
	uue							

 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 - F	PKG-190430-1445	11.mgp						- 🗆 X
≡ MENU	Package F	iles Shortcuts\Apps	Registry	System resourc	es			
				MSI	UWP	APPV		
MSI shorto	cuts						Included: 2 shortcuts	Collapse all
Name						Туре	Target	State
🖃 🔤 C:						Folder		Changed
🕀 📄 Prog	ram Files (x86)					Folder		Changed
🖃 🔛 Prog	jram Data					Folder		Changed
	Microsoft					Folder		Changed
± [Search					Folder		Changed
-	Windows					Folder		Changed
	Start Menu					Folder		Changed
	Program	ns				Folder		Changed
	🍯 Fire	fox.lnk				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp					Folder		Changed
± [Windows Defer	der				Folder		Changed
User	s					Folder		Changed
	pace					Folder		Changed
- F	Public					Folder		Changed
-	Desktop					Folder		Changed
	Firefox.lnk	Import shortcuts				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
. Wind	dows	New shortcut	-			Folder		Changed
		New subfolder						
		New Subiolder						
		Properties	F2					
		Move to folder						
		Exclude	Del					
		Add to exclusion filter	•					
Add 🔺	Exclude	Delete	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	s Registry	System resources			
Registry							Included: 113 values 💙 Collapse a
Name					Туре	Value	State
HKEY	CLASSES_ROOT				System hive		
HKEY	CURRENT_USER				System hive		
🖃 🔜 Sc	oftware				Key		Changed
• [Classes				Key		Changed
•	Microsoft				Кеу		Changed
6	🛛 📗 AuthCookies				Кеу		Changed
	🗉 📕 Live	Import registry			Key		Changed
E	IdentityCRL	Export registry			Key		Changed
	🗉 🛅 Immersiv	Now kov			Key		Changed
Đ	Windows	New Key			Кеу		Changed
HKEY	LOCAL_MACHINE	New value			System hive		
🖃 💼 SC	DFTWARE	Properties	F2		Key		Changed
۰.	Classes	Move to			Кеу		Changed
±	Clients	Exclude	Del		Key		Changed
±	Microsoft	Add to exclusion filter	•		Key		Changed
	Mozilla	Delete	Shift+Del		Кеу		Added
• C	Policies	Delete			Key		Changed
	RegisteredApplic	APPV virtualization lev	vel 🕨		Кеу		Changed
Đ	WOW6432Node				Key		Changed
🖃 🔚 Sy	/stem				Key		Changed
E	CurrentControlSe	t			Key		Changed
E	Services				Key		Changed
	MozillaM	aintenance			Key		Added
	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	e - PKG-190430-1	44511.mgp)			- 🗆 X
	Package	Files	Shortcuts\Apps	Registry	System resources	
				Services	(1) Printers (0)	Environment variables (0)
Services	aMaintenance					Environment Variables (0) 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 V Event Auto V Error control Normal V



 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	– 🗆 X
≡ MENU Package Files Shortcuts\Apps Registry System resources	s
Services (1) Printers ((0) Environment variables (1)
A Name Value Value A Name Value A Name Value A Name Name Name Name Name Name Name Name	Type achine V
* Add Delete	

- For managing MSI Settings such as application details, compression type, use of advertised tables, adding, active setup and the like, see section 4.8.6
- Finally, to generate an MSI package navigate to the Package -> MSI tab and click Build MSI.
 Edit package PKG-190430-144511.mgp

💓 Еснт раскаде - РКС-190430-144511.mgp	р										-		×
≡ MENU Package Files	Shortcuts\Apps	Registry	System resources										
		MSI	MST	UWP	APF	V	THI	NAPP					
Application Details				Μ	SI Packa	age C	Optio	ns					
Application name				MS	I settings pro	ile							
Firefox				de	fault						~	Edit	
Publisher				Pro	ject folder								
Mozilla				C	:\Users\pac	e\Docu	ments\/	ISI Generator\Pack	ages\PKG-1	Browse		Go to	
Version	Product land	uage		MS	I CodePage								
63.0.3	1033			0	Neut	al							~
Product code				INS	TALLDIR								
			New GUID	C:	\Program Fi	les (x86	j)\Mozil	a Firefox					~
Upgrade code							Deter	a d A (C) in stallations				Onen la	
			New GUID	: .	BOILD LC	G	Detect	ed MSI Installations				openio	'g
Generate new codes when build M	151				ipe L	apseu		step					
Es concrute new codes when baile h	101												
Summary Information													
Summary Information	Subject												
Summary Information Title Installation Database	Subject												
Summary Information Title Installation Database Author	Subject Keywords												
Summary Information Title Installation Database Author	Subject Keywords Install,MS	1											
Summary Information Title Installation Database Author Comments	Subject Keywords Install,MS	1											
Summary Information Title Installation Database Author Comments This installer database contains the le	Subject Keywords Install,MS logic and data required	l 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><td></td></pre<>	oduct name>.										
Summary Information Title Installation Database Author Comments This installer database contains the low Platform	Subject Keywords Install,MS logic and data required Languages	l 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><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.mg	9P				_					
≡ MENU Package Files	Shortcuts\A	pps Registry	System resources							
		MSI	MST	UWP		APPV	THINAPP			
Application Details				Ν	VISI Pa	ckage (Options			
Application name				M	ISI settings	profile				
Firefox				c	default			~	Ed	dit
Publisher				P	roiect folde	er				
Mozilla					C:\Users\	pace\Docu	uments\MSI Generator\Packages\PKG-1	Browse	Golt	to
Vertion	Brod	uct language		N	ISI CodoDo					
63.0.3	103	2				ge loutrol				
03.0.3	101	.5			0 1	leutrai				
roduct code				IN	NSTALLDIR					
{0A6CB50B-C191-4E46-B206-F07A7	76BAD957}		New GUID	C	C:\Progra	m Files (x8	36)\Mozilla Firefox			
Jpgrade code					BUILI	D LOG	Detected MSI installations		Oper	n log
{99F27E0A-B935-4175-B70D-966E4	D302030}		New GUID	1	Туре	Elapsed	Step			
Generate new codes when build !	VISI					00:00:59	Operation was completed successfully			
					1.1	00:00:59	Writing data to the _Validation table			
Summary Information					- E.	00:00:59	Writing data to the CreateFolder table			
itte	Subi	act			- E.	00:00:59	Writing data to the AdvtExecuteSequer	ce table		
Installation Database	505				- E.	00:00:59	Writing data to the InstallExecuteSeque	nce table		
Installation Database					- E.	00:00:59	Writing data to the CustomAction table			
Author	Keyw	rords			- E.	00:00:59	Writing data to the MsiAssemblyName	table		
	Ins	tall,MSI			- H.	00:00:59	Writing data to the MsiAssembly table			
						00:00:52	Importing cabinet (CAB) file into the M	5I - "PKG191_1.cab"		
omments						00:00:52	Writing data to the Media table			
This installer database contains the	logic and data re	equired to install <pr< td=""><td>oduct name>.</td><td></td><td>- E.</td><td>00:00:52</td><td>Writing data to the Verb table</td><td></td><td></td><td></td></pr<>	oduct name>.		- E.	00:00:52	Writing data to the Verb table			
latform	land	12000				00:00:52	Writing data to the MIME table			
Autodetect	✓ 0	uayes		El	lapsed tim	e	F2 Ope	n MSI ti	b Build	MSI

4.1.3 Automate Repackaging EXE to MSI

Use the MSI Generator command line options to automate repackaging of a source installation (EXE, MSI, VBS, CMD, etc.) into MSI package.

PACE Suite - MSI Generator supports command line options that allows automation of repackaging EXE into MSI package. Just write a short script for running the pre-install and post-install scans with MSI Generator, apply the filters to the captured resources and generate the MSI package.

NOTE: Find the complete description of the command line options in section "4.16 Command Line Options".

• Take the first (pre-install) system snapshot in the unattended mode.

"C:\Program Files (x86)\PACE Suite\MSI Generator\MsiGenerator.exe" -snapshot "C:\
Snapshots\snapshot_1.msgn"

- Run your source EXE installation and made any other system changes you need to capture to MSI.
- Take the second (post-install) system snapshot in the unattended mode.



"C:\Program Files (x86)\PACE Suite\MSI Generator\MsiGenerator.exe" -snapshot "C:\
Snapshots\snapshot_2.msgn"

• Compare two taken snapshots (pre-install and post-install) to create the project, based on the difference between the snapshots. All the existing pre-defined and user-defined exclusion filters will be applied to the captured resources automatically.

"C:\Program Files (x86)\PACE Suite\MSI Generator\MsiGenerator.exe" -compare "C:\
Snapshots\snapshot_1.msgn" "C:\Snapshots\snapshot_2.msgn" "C:\Projects" "PACE Suite
5.3"

• Build MSI package from the created project.

"C:\Program Files (x86)\PACE Suite\MSI Generator\MsiGenerator.exe" -buildPackage "C:\
Projects\PACE Suite 5.3\PACE Suite 5.3.mgp" "C:\Projects\PACE Suite 5.3\MSI\
pace_suite_5.3.msi" "default"

4.1.4 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.



• 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 Setti nethod	ings Insta	Illation (Completion			
Prepare the computer for cap	turing						
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 virtu your source installati	al machine with on. Also, in case	all non-esse of any failun	ntial processes sto e, you will be able	opped i e to resi	n order tore the	to
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 soft	tware before captur	ring.				
Refresh				Review the capturin	g recom	mendatio	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	9						×
~							
Prepare computer	Capturing method	Settings	Installation	Completion			
Select a capturing metho	d						
Monitoring (quick) This method watches the second	he installation and r	records system ch	nanges to a packa	ige.			
 Snapshotting (configure This method creates two difference between snapshotting 	able) ro system snapshot Ipshots. Use this op	s (before and afte stion if your sourc	er the installation) e installation requ	and builds a pack uires the system res	age, bas start.	sed on	
			K 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				-		_		×
	Prepare computer	Capturing method	Settings	Installation	Completion			
Settings								
Package name								
Exclusion filters			Scanning	g areas				
Apply the following f	îlters to the capti	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.



PACE Suite 5.3.1 - Getting Started

📕 🔄 📕 🖛 🛛 C.'	\Progran	n Files (x86)							- [×
File Home	Share	View									~ 🕐
$\leftarrow \rightarrow \cdot \uparrow$	> This	s PC → Local Disk (C:) →	Program Files (x86) >				~	ē	Search Program Files (x86)	ρ
		Name	^	Date modified	Tvi	pe	Size				~
📌 Quick access		Comment Film		7/16/2016 2:47 DM	1 21	. (-1.1					
E Desktop	*	Internet Explorer		7/10/2010 2:47 PIVI	FIIE	e folder					
🖊 Downloads	*	Microsoft Analysis	Services	2/20/2017 1:34 PW	File	e folder					
Documents	*	Microsoft Office	Services	2/17/2017 3:40 PM	File	e folder					
Pictures	*	Microsoft SOL Serv	er	2/17/2017 3:42 PM	File	e folder					
		Microsoft.NET	-	2/17/2017 3:44 PM	File	e folder					
a OneDrive		Mozilla Firefox		0/10/2017 /-05 DM	File	e folder					
💻 This PC		Mozilla Maintenan	Open			folder					
A Maturali		Notepad++	Open in new wind	ow		folder					
		PACE Suite	Pin to Quick acces	is		folder					
🔩 Homegroup		Uninstall Information	7-Zip		>	folder					
		VMware	CRC SHA		>	folder					
		Windows Defender	🕂 Scan with Window	/s Defender		folder					
		Windows Kits	Share with		>	folder					
		Windows Mail	Restore previous v	ersions		folder					
		Windows Media Pla	Include in library		>	folder					
		Windows Multime	Pin to Start			folder					
		Windows NI	Condito		_	tolder					
		Windows Photo Vie	Send to		_	folder					
		WindowsPortable	Cut			folder					~
21 items 1 item s	elected	WindowsFowerShe	Сору			Toldel					
			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									
E ALL APPLICATION PACKAGES	^								
CREATER OWNER									
	~								
< >>									
To change permissions, click Edit.									
Permissions for ALL APPLICATION PACKAGES Allow Deny									
Full control	^								
Modify									
Read & execute									
List folder contents									
Read 🗸									
Write	¥								
For special permissions or advanced settings, Advanced click Advanced.									
OK Cancel App	ly								

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					
Group or user names:							
SCREATOR OWNER		^					
SYSTEM	(\ \ dministertam \						
Sers (WIN10X64-VM\Users)) (Auministrators)						
Sea TrustedInstaller		~					
<		>					
	A <u>d</u> d	<u>R</u> emove					
Permissions for Users	Allow	Deny					
Full control		□ ^					
Modify	\square						
Read & execute	\sim						
List folder contents	\sim						
Read		∨					
OK	Caraal	Anabi					

• 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	on							
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	5
 Customize p Stop now ar 	roject in editor Id 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: Permissions:	1							
Printers:	0							
				< Back	Finish		Cancel	
				, oden)	2011001	

• 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 in	stallation — 🗌	~
	Prepare Capturing Settings Installation Completion computer method	
omple	tion	
e following	files could not be copied to the project folder because they are locked or missing:	
itate	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 restor	re missing and unlock locked files and then click "Retry". Click "Finish" to proceed creating the project and skip	
pying loc	ked 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, 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 - PKG-19043	0-144511.mgp						-	\Box \times
≡ MENU Package	Files Sho	rtcuts\Apps	Registry	System resources				
Files and folders					Inc	luded: 124 files (197,6	MB) 💙 Coll	apse all
Name					Туре	Size	State	
🖃 🔤 C:					Folder		Changed	
🖃 📄 Program Files (x	86)				Folder		Changed	
🕀 🔚 🔍 Mozilla F	irefox				Folder		Added	
🕀 🔚 Mozilla Mair	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 🖹	Properties	E2	_		LOG1	16,0 MB	Changed	
SY:	Move to folder	12			LOG1	1004,0 KB	Changed	
🖃 🔛 SleepS	Fuelvele	Del			Folder		Changed	
Us	Exclude	Dei			ETL	320,0 KB	Changed	
🖃 🔛 winevt	Add to exclusion	n filter	·		Folder		Changed	
E Lo	Delete	Shift+De	2		Folder		Changed	
	APPV virtualizati	on level	•		Folder		Changed	
Add Evolution	Ide							
	uue							

 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							Included: 113 values 💙 Collapse a
Name					Туре	Value	State
HKEY	CLASSES_ROOT				System hive		
HKEY	CURRENT_USER				System hive		
🖃 🔜 So	oftware				Key		Changed
• [Classes				Key		Changed
•	Microsoft				Кеу		Changed
6	🛛 📗 AuthCookies				Кеу		Changed
	🗉 📕 Live	Import registry			Key		Changed
E	IdentityCRL	Export registry			Key		Changed
	🗉 🛅 Immersiv	Now kov			Key		Changed
Đ	Windows	New Key			Кеу		Changed
HKEY	LOCAL_MACHINE	New value			System hive		
🖃 💼 SC	DFTWARE	Properties	F2		Key		Changed
۰.	Classes	Move to			Кеу		Changed
±	Clients	Exclude	Del		Key		Changed
±	Microsoft	Add to exclusion filter	•		Key		Changed
	Mozilla	Delete	Shift+Del		Кеу		Added
• C	Policies	Delete			Key		Changed
	RegisteredApplic	APPV virtualization lev	vel 🕨		Кеу		Changed
Đ	WOW6432Node				Key		Changed
🖃 🔚 Sy	/stem				Key		Changed
E	CurrentControlSe	t			Key		Changed
E	Services				Key		Changed
	MozillaM	aintenance			Key		Added
	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	e - PKG-190430-1	44511.mgp)			- 🗆 X
	Package	Files	Shortcuts\Apps	Registry	System resources	
				Services	(1) Printers (0)	Environment variables (0)
Services	aMaintenance					Environment Variables (0) 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 V Event Auto V Error control Normal V



 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	- D X
■ MENU Package Files Shortcuts\Apps Registry System resources	rces
Services (1) Print	ers (0) Environment variables (1)
Name Value Value Value Value Add Delete	Type Machine V

- For managing MSI Settings such as application details, compression type, use of advertised tables, adding, active setup and the like, see section 4.8.6
- Finally, to generate an MSI package navigate to the Package -> MSI tab and click Build MSI.

Package Files	Shortcuts\Apps	Registry	System resources							
		MSI	MST	UWF	0	APPV	THI	1APP		
Application Details					MSI Pa	ckage C	Option	าร		
Application name					MSI setting	s profile				
Firefox					default				~	Edit
Publisher					Project fold	er				
Mozilla					C:\Users\	pace\Docu	ments\/\	ISI Generator\Packages\PKG-1	Browse	Go to
Version	Product lang	guage			MSI CodePa	ige				
63.0.3	1033				0 1	leutral				
Product code					INSTALLDIR					
			New GUID		C:\Progra	m Files (x86)\Mozill	a Firefox		
Upgrade code					BUIL	D LOG	Detect	ed MSI installations		Open lo
			New GUID	:	Туре	Elapsed		Step		
Generate new codes when build	MSI									
Summary Information										
Title	Subject									
Title Installation Database	Subject									
Title Installation Database Author	Subject Keywords									
Title Installation Database Author	Subject Keywords	51								
Title Installation Database Author Comments	Subject Keywords Install,MS	51								
Title Installation Database Author Comments This installer database contains the	Subject Keywords Install,MS logic and data required	il d to install <pre< td=""><td>oduct name>.</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 Platform	Subject Keywords Install,MS logic and data required Languages	il d to install <pre< td=""><td>oduct name>.</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.mg	3b								×
≡ MENU Package Files	Shortcuts\Apps	Registry	System resources						
		MSI	MST	UWP	APPV	THINAPP			
Application Details				MSI	Package	e Options			
Application name				MSI se	ttings profile				
Firefox				defau	ult		~	Edit	
Publisher				Project	t folder				
Mozilla				C:\U	sers\pace\Do	ocuments\MSI Generator\Packages\PKG-1	Browse	Go to	
Version	Product lang	uage		MSI Co	odePage				
63.0.3	1033			0	Neutral				~
Product code				INSTA	IDR				
{0A6CB50B-C191-4E46-B206-F07A7	76BAD957}		New GUID	C:\Pr	oaram Files (:	x86)\Mozilla Firefox			~
lingrada coda					- · ·	2 X			
/99F27F0A-B935-4175-B70D-966F4	03020301		New GUID		BUILD LOG	Detected MSI installations		Open log	1
			Her Colo	Туре	Elapse	d Step			
✓ Generate new codes when build N	VSI				00:00:	59 Operation was completed successfully			
Summary Information					00:00:	Writing data to the _Validation table			
Summary mornation					00:00:	Writing data to the Createrolder table	nes table		
Title	Subject				00:00:	Writing data to the AdvickecuteSeque	ance table		
Installation Database					00:00:	Writing data to the Custom Action tab			
Author	Kaavords				00:00:	Writing data to the MsiAssemblyNam	table		
Aution	Le stell MCI				00:00:5	59 Writing data to the MsiAssembly table			
	Install,IVISI				00:00:5	52 Importing cabinet (CAB) file into the N	ISI - "PKG191 1.cab"		
Comments					00:00:5	52 Writing data to the Media table			
This installer database contains the	logic and data required	to install <pre>pre</pre>	oduct name>.		00:00:5	52 Writing data to the Verb table			
					00:00:5	52 Writing data to the MIME table			-
Platform	Languages			Flance	d time	-			
Autodetect	✓ 0			00:01:	00	C Op	en MSI 🖞	Build MSI	



4.2 Create MST

Choose a scenario that better suits your needs:

- Create Blank MST, described in section 4.2.1 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 4.2.2 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 4.2.3 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.

4.2.1 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.

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						×
← → ~ ↑	> This	PC > Desktop		ٽ ~	Search Desktop	<i>م</i>
Organize 🔻 Ne	ew folder					• 🔳 🕐
🖈 Ouick access		Name	`	Date modified	Туре	Size
Desktop	A	PACE_v5.0.0.msi		11/29/2018 3:03 AM	Windows Installer	51,391 KB
 Downloads Documents Pictures OneDrive This PC Network Homegroup 	* *					
	File <u>n</u> ar	me: PACE_v5.0.0.msi			All Supported File	s (*.msi;*.mst ~ Cancel

- For managing package resources and settings, refer to the respective section of this document:
 - For managing Application Details see section 4.7.2
 Manage product name, version, language and manufacturer of the application.
 - For managing Package IDs see section 4.7.3
 Manage product, upgrade and package codes.



- For managing Files and Folders see section 4.7.4
 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 4.7.5 Review package shortcuts, add new or import existing shortcuts, manage their properties.
- For managing Registry see section 4.7.6
 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 4.7.7 Manage custom and standard actions of the package, add new one to run scripts, EXE, etc.
- For managing Drivers see section 4.7.8
 Review the package device drivers, modify and add new ones.
- For managing Features and Components see section 4.7.9
 Review the feature-component structure and resources, linked with components. Add new features, components and manage their properties.
- For managing ARP Appearance see section 4.7.10
 Control how the package will be displayed in the App list (Add & Remove Programs).
- For managing Upgrades see section 4.7.11
 Manage the package upgrade settings to automatically upgrade previous MSI packages.
- For managing MSI Properties see section 4.7.12
 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 4.7.13
 Manage Summary Information of the opened MSI/MST.
- For managing MSI Tables see section 4.7.14
 Add, import, drop MSI tables.
- For managing Merge Modules, described in section 4.7.15 Create new MSM or importing existing MSM to the package.



For saving your package, select Save from the MENU.



4.2.2 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 Ta	iloring							
MSI package for tailoring						P		
Apply transform (optional)						DI	rowse	
						B	rowse	
Command-Line options (MSI prope	erties only)							
☐ Ignore MSI launch conditio	n							
NOTE A response transform is a	an 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 si	imulated MSI Insta	liation will not allect	, 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	PC > Downloads	~ č) Search Download	s	9
Organize 🔻 New	v folder				-	?
- Oviele and a		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	\mathcal{A}^{h}					
Documents	A					
Pictures	*					
a OneDrive						
💻 This PC						
💣 Network						
•4 Homegroup						
	File <u>n</u> am	e: VisualSVN-Server-3.2.3-x64.msi		Vindows Installe	er database (*.n Cancel	n ~

• 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


	able.						
Create a response transform							
	•						
	MSI for tailoring	Installation simulation	Captured changes	Completion			
select an MSI for Tailc	oring						
ISI package for tailoring							
C:\Users\pace\Downloads\Visua	alSVN-Server-	3.2.3-x64.msi				Browse	
pply transform (optional)							
						Browse	
ommand-Line options (MSI propertie	es only)						
] Ignore MSI launch condition							
] Ignore MSI launch condition	MST file contain	ing all yours inputs	and changes, ma	de to the Windows Insta	ller (UI) Dialog	is of the	
] Ignore MSI launch condition IOTE A response transform is an M mulated MSI installation. The simu	MST file contain ulated MSI insta	ing all yours inputs llation will not affect	and changes, ma t your system.	de to the Windows Insta	ller (UI) Dialog	is of the	
] Ignore MSI launch condition IOTE A response transform is an M mulated MSI installation. The simu	MST file contain ulated MSI insta	ing all yours inputs llation will not affect	and changes, ma t your system.	de to the Windows Insta	ller (UI) Dialog	is of the	
] Ignore MSI launch condition IOTE A response transform is an M mulated MSI installation. The simu	MST file contain Jlated MSI insta	ing all yours inputs llation will not affect	and changes, ma t your system.	de to the Windows Insta	ller (UI) Dialog	is of the	
] Ignore MSI launch condition IOTE A response transform is an N imulated MSI installation. The simu	MST file contain Jlated MSI insta	ing all yours inputs llation will not affect	and changes, ma t your system.	de to the Windows Insta	ller (UI) Dialog	is of the	
] Ignore MSI launch condition IOTE A response transform is an N imulated MSI installation. The simu	MST file contain Jlated MSI insta	ing all yours inputs llation will not affect	and changes, ma t your system.	de to the Windows Insta	ller (UI) Dialog	is of the	
☐ Ignore MSI launch condition IOTE A response transform is an № imulated MSI installation. The simu	MST file contain Jlated MSI insta	ing all yours inputs llation will not affect	and changes, ma t your system.	de to the Windows Insta	ller (UI) Dialog	is of the	
☐ Ignore MSI launch condition IOTE A response transform is an N imulated MSI installation. The simu	MST file contain Jlated MSI insta	ing all yours inputs llation will not affect	and changes, ma t your system.	de to the Windows Insta	ller (UI) Dialog	is of the	
☐ Ignore MSI launch condition IOTE A response transform is an M imulated MSI installation. The simu	MST file contain Jlated MSI insta	ing all yours inputs llation will not affect	and changes, ma t your system.	de to the Windows Insta	ller (UI) Dialog	is of the	

• Click Next to start the MSI installation simulation.

					_		×
	•						
	MSI for tailoring	Installation simulation	Captured changes	Completion			
Select an MSI for Ta	ailoring						
MSI package for tailoring							
C:\Users\pace\Downloads\\	/isualSVN-Server-	3.2.3-x64.msi				Browse.	
Apply transform (optional)							
						Browse.	
Command-Line options (MSI prop	erties only)						
☐ Ignore MSI launch condition	on						
NOTE A response transform is	an MST file contain	ing all yours inputs	and changes, ma	de to the Windows Instal	ler (UI) Dial	ogs of the	
NOTE A response transform is simulated MSI installation. The s	an MST file contair simulated MSI insta	ing all yours inputs llation will not affect	and changes, ma your system.	de to the Windows Instal	ler (UI) Dia	ogs of the	
NOTE A response transform is simulated MSI installation. The s	an MST file contair simulated MSI insta	ing all yours inputs llation will not affect	and changes, ma your system.	de to the Windows Instal	ler (UI) Dia	logs of the	
NOTE A response transform is simulated MSI installation. The	an MST file contair simulated MSI insta	ing all yours inputs llation will not affect	and changes, ma your system.	de to the Windows Instal	ler (UI) Dia	logs of the	
NOTE A response transform is simulated MSI installation. The :	an MST file contair simulated MSI insta	ing all yours inputs llation will not affect	and changes, ma your system.	de to the Windows Instal	ler (UI) Dial	logs of the	
NOTE A response transform is simulated MSI installation. The s	an MST file contair simulated MSI insta	ing all yours inputs llation will not affect	and changes, ma your system.	de to the Windows Instal	ler (UI) Dia	logs of the	
NOTE A response transform is simulated MSI installation. The	an MST file contair simulated MSI insta	ing all yours inputs llation will not affect	and changes, ma your system.	de to the Windows Instal	ler (UI) Dial	logs of the	
NOTE A response transform is simulated MSI installation. The	an MST file contair simulated MSI insta	ing all yours inputs llation will not affect	and changes, ma your system.	de to the Windows Instal	ler (UI) Dia	logs of the	
NOTE A response transform is simulated MSI installation. The :	an MST file contair simulated MSI insta	ing all yours inputs llation will not affect	and changes, ma your system.	de to the Windows Instal	ler (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									×
	~		_						
	MSI for tailoring	Installation simulation	Captur chang	red Jes	Complet	ion			
Captured changes									
Properties Features	Directories								
Items	Old value			New val	ue		Capt	ured state	
LicenseAccepted				1			Crea	ted	
ShowMigratePermissionsReport			(0			Crea	ted	
Feature_AddSvnToPath				1			Creat	ted	
_BrowseProperty				INSTALL	DIR		Crea	ted	
ManagerOnly	0			1			Upda	ated	
SideBannerBitmap	WixUI_Bm	o_Side		WixUI_P	ng_Side		Upda	ated	
TopBannerBitmap	WixUI_Bm	p_Top		WixUI_P	ng_Top		Upda	ated	
UpdatePathVariable	1						Rem	oved	
Add Remove								Total rov	ws: 8
					< Back	Next >		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 beer	n captured succes	fully.						
 Save the responce transform Save the responce transform 	n and continue v n 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.r	mst			Browse.	
				< Back	Finish		Cancel	

4.2.3 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				_		×
•						
Prepare Ca computer r	pturing Setting nethod	s Installati	on Completion			
Prepare the computer for cap	turing					
It is strongly recommended to perform capt 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 r your source installation.	nachine with all i Also, in case of	non-essential processe any failure, you will be	es stopped able to re	l in orde store th	r to e
Description	Resolution					
Diagnostic Policy Service is active.	Stop this service before cap	turing.				
Windows Defender Antivirus Service is active.	Stop this service before cap	turing.				
Security Center is active.	Stop this service before cap	turing.				
Windows Search is active.	Stop this service before cap	turing.				
Windows Defender is running.	Close your antivirus softwar	e before capturing.				
Refresh			Review the cap	turing recor	mmendati	ons
		< E	ack 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	<u> </u>		,				×
~ —							
Prepare computer	Capturing method	Settings	Installation	Completion			
Select a capturing metho	d						
Monitoring (quick) This method watches the second	ne installation and r	records system ch	anges to a packa	age.			
 Snapshotting (configura This method creates tw difference between sna 	able) o system snapshot pshots. Use this op	s (before and afte ation if your source	r the installation) e installation requ	and builds a pack uires the system re	age, bas start.	sed on	
			K 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	-	-		-			×
	Prepare computer	Capturing method	Settings	Installation	Completion		
Settings							
Package name							
Exclusion filters			Scannin	g areas			
Apply the following f	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.



PACE Suite 5.3.1 - Getting Started

5									
📕 🛃 🚽 = C:\Program	n Files (x86)							- 🗆	×
File Home Share	View								~ ?
← → × ↑ 📙 > This	PC → Local Disk (C:) →	Program Files (x86) >				v ⊙	Search Progra	m Files (x86)	Q
	Name	^	Date modified	Ту	pe	Size			^
Quick access	Common Files		7/16/2016 2:47 PM	Fil	e folder				
Desktop 🖈	Internet Explorer		2/20/2017 1:54 PM	Fil	e folder				
Uownloads 🖈	Microsoft Analysis	Services	2/17/2017 3:40 PM	Fil	e folder				
🚆 Documents 🖈	Microsoft Office		2/17/2017 3:40 PM	Fil	e folder				
📰 Pictures 🛛 🖈	Microsoft SQL Serv	er	2/17/2017 3:42 PM	Fil	e folder				
\land OneDrive	Microsoft.NET		2/17/2017 3:44 PM	Fil	e folder				
This PC	Mozilla Maintenan	Open	<u>e : : : : : : : : : : : : : : : : : : :</u>		folder				
	Notepad++	Open in new windo	w		folder				
Network	PACE Suite	Pin to Quick access			folder				
🔩 Homegroup	Uninstall Information	7-Zip		>	folder				
	VMware	CRC SHA		>	folder				
	Windows Defender	Scan with Windows	Defender		folder				
	Windows Kits	Share with		>	folder				
	Windows Media Pla	Restore previous ve	rsions		folder				
	Windows Multimed	Include in library		>	folder				
	Windows NT	Pin to Start			folder				
	📙 Windows Photo Vie	Send to		>	folder				
	Windows Portable	Cut			folder				
21 items 1 item selected	WindowsPowerShe	Сору			folder				
Eritens Fitenselette		Create shortcut							
		🎈 Delete							
		💎 Rename							
		Properties							
T I 1 1 1 1		1 1 1 1							
Then, switch to t	the Security t	ab and click	Eait.		1				
Mozilla Firefox	Properties		>	\times					
-									
General Sharing	Security Previo	us Versions Cust	tomize						
	110110		011120						
Object name: C	:\Program Files (x	86)\Mozilla Firefox							
Group or user nam	ies:								
ALL APPLIC	ATION PACKAGE	S	~						
ALL RESTRI	CTED APPLICAT	ION PACKAGES							
CREATOR O	WNER								
			~						
<			>						
Techanora	-tana akata Eda								
to change permis	SIONS, CIICK EDIT.		<u>E</u> dit						
Permissions for AL	L								
APPLICATION PA	CKAGES	Allow	Deny						
Full control			~						
Modify									
Modily									
Read & execute	•	\checkmark							
List folder conte	ents	\checkmark							
Read		~							
Write			\checkmark						
For special permise	sions or advanced	settings							
click Advanced	SIGNS OF BUVEFICED	A settings, A	d <u>v</u> anced						
	01/	Caract	A-c-l						
	OK	Cancel	Apply						

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:		
CREATOR OWNER		^
SYSTEM		
Administrators (WIN10X64-VI	M\Administrators)	
State of the state)	
<		> ×
	A 1 1	
	A <u>d</u> d	<u>R</u> emove
Permissions for Users	A <u>d</u> d Allow	<u>R</u> emove Deny
Permissions for Users	Add Allow	Remove
Permissions for Users Full control Modify	Add Allow	Remove
Permissions for Users Full control Modify Read & execute	Add Allow	Remove
<u>P</u> ermissions for Users Full control Modify Read & execute List folder contents	Add Allow	Remove
Permissions for Users Full control Modify Read & execute List folder contents Read	Add Allow	Remove
<u>P</u> ermissions for Users Full control Modify Read & execute List folder contents Read	Add Allow	Remove
Permissions for Users Full control Modify Read & execute List folder contents Read	Add Allow	Remove

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

٥

Capture inst	tallation						_		×
		~							
		Prepare computer	Capturing method	Settings	Installation	Completion			
Install yo	our appli	cations no	WC						
Now is the tir the "Select ar	me to run in: nd run" fun	stallers of the a ctionality.	applications, whic	h you want to ca	apture. You can ru	n installers either r	manually	or using	9
Select ar	nd run								
Detected MSI Ir	nstallation								
State	Copied	Name							
Note that it is apturing and Once the inst I have finit	s not recomr d switch to c tallation is cc	nended to rep ustomizing the ompleted, sele	package MSI to M em via a transforr ct "I have finished	SI. If you have ir n in Editor. I the installation'	stantly detected a and click "Next".	nd copied MSI ins	tallations	;, cancel	
23 - Hove 11113		anation			/ De-la	Net		Canad	
					< 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	on							
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	5
 Customize p Stop now ar 	roject in editor Id 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: Permissions:	1							
Printers:	0							
				< Back	Finish		Cancel	
				, oden)	2011001	

• 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 in	stallation — 🗌	~
	Prepare Capturing Settings Installation Completion computer method	
omple	tion	
e following	files could not be copied to the project folder because they are locked or missing:	
itate	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 restor	re missing and unlock locked files and then click "Retry". Click "Finish" to proceed creating the project and skip	
pying loc	ked 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, 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 - PKG-19043	0-144511.mgp		0					-		×
≡ MENU Package	Files Shortcuts\/	Apps Regis	stry Sy	ystem resources						
Files and folders						Include	d: 124 files (197,6 MB)	V	Collapse	all
Name						Туре	Size	State		
🖃 C:						Folder		Changed		
Program Files (x86)					Folder		Changed		
🕀 🖿 🔍 Mozilla	Firefox					Folder		Added		
🗉 📕 Mozilla Ma	intenance Service					Folder		Added		
ProgramData						Folder		Changed		
 Microsoft 						Folder		Changed		
Users						Folder		Changed		
						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	Properties	E2				LOG1	16,0 MB	Changed		
SY:	Move to folder	12				LOG1	1004,0 KB	Changed		
SleepS	Fuelvela	Del				Folder		Changed		
Us	Exclude	Dei				ETL	320,0 KB	Changed		
🖃 🔛 winevt	Add to exclusion filter	•				Folder		Changed		
E Lo	Delete	Shift+Del				Folder		Changed		
	APPV virtualization leve	el 🕨				Folder		Changed		
Add 🔺 Exc	lude									

 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 - F	PKG-190430-1445	11.mgp						- 🗆 X
≡ MENU	Package F	iles Shortcuts\Apps	Registry	System resourc	es			
				MSI	UWP	APPV		
MSI shorto	cuts						Included: 2 shortcuts	Collapse all
Name						Туре	Target	State
🖃 🔤 C:						Folder		Changed
🕀 📄 Prog	ram Files (x86)					Folder		Changed
🖃 🔛 Prog	jram Data					Folder		Changed
	Microsoft					Folder		Changed
± [Search					Folder		Changed
-	Windows					Folder		Changed
	Start Menu					Folder		Changed
	Program	ns				Folder		Changed
	🍯 Fire	fox.lnk				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp					Folder		Changed
± [Windows Defer	der				Folder		Changed
User	s					Folder		Changed
• F	pace					Folder		Changed
- F	Public					Folder		Changed
-	Desktop					Folder		Changed
	Firefox.lnk	Import shortcuts				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
. Wind	dows	New shortcut	-			Folder		Changed
		New subfolder						
		New Subiolder						
		Properties	F2					
		Move to folder						
		Exclude	Del					
		Add to exclusion filter	•					
Add 🔺	Exclude	Delete	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	s Registry	System resources			
Registry							Included: 113 values 💙 Collapse a
Name					Туре	Value	State
HKEY	CLASSES_ROOT				System hive		
HKEY	CURRENT_USER				System hive		
🖃 🔜 So	oftware				Key		Changed
• [Classes				Key		Changed
•	Microsoft				Кеу		Changed
6	🛛 📗 AuthCookies				Кеу		Changed
	🗉 📕 Live	Import registry			Key		Changed
E	IdentityCRL	Export registry			Key		Changed
	🗉 🛅 Immersiv	Now kov			Key		Changed
Đ	Windows	New Key			Кеу		Changed
HKEY	LOCAL_MACHINE	New value			System hive		
🖃 💼 SC	DFTWARE	Properties	F2		Key		Changed
۰.	Classes	Move to			Кеу		Changed
±	Clients	Exclude	Del		Key		Changed
±	Microsoft	Add to exclusion filter	•		Key		Changed
	Mozilla	Delete	Shift+Del		Кеу		Added
• C	Policies	Delete			Key		Changed
	RegisteredApplic	APPV virtualization lev	vel 🕨		Кеу		Changed
Đ	WOW6432Node				Key		Changed
🖃 🔤 Sy	/stem				Key		Changed
E	CurrentControlSe	t			Key		Changed
E	Services				Key		Changed
	MozillaM	aintenance			Key		Added
	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	e - PKG-190430-1	44511.mgp)			- 🗆 X
	Package	Files	Shortcuts\Apps	Registry	System resources	
				Services	(1) Printers (0)	Environment variables (0)
Services	aMaintenance					Environment Variables (0) 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 V Event Auto V Error control Normal V



 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 + TestVar Value 1 Add Add		
Delete		

• 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								·	×
≡ menu	Package	Files	Shortcuts\App	s Registry	System resources						
				MSI	MST U	WP 4	PPV	THINAPP			
Application	on Details	5				Transfo	r <mark>m Op</mark> t	tions			
Application nam	ne					MSI settings	profile				
					•	default			~	Edit	
Publisher						Project folde	r				
					•	C:\Users\p	ace\Docu	iments\MSI Generator\Packages\PKG-1	Browse	Go to.	
Version			Product	language		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	5l			BUILD	LOG	Detected MSI installations		Open lo	og
Summan	Informat	tion				Туре	Elapsed	Step			
Summary	morna	lion									
Title			Subject								
Author			Keywor	ls							
Comments											
Platform			Langua	es							
Autodetect			 ✓ 			Elapsed time 00:00		C Op	en MST 🛛 😋	Build MS	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 fi	le						×
← → ~ ↑ 🖊	> This	PC > Downloads			~ Ū	Search Download	ls	Q
Organize 🔻 New	w folder					•		?
- Ouick accore		Name	<u>,</u>	Date modified	Туре	Siz	e	
Desktop	*	🚏 Firefox.msi		9/13/2017 6:39 PM	Windows	installer	81,614 KB	
Downloads	A							
Documents	*							
Pictures	*							
a OneDrive								
💻 This PC								
Petwork								
•4 Homegroup								
	File nan	ne: Firefox.msi			~	MSI Files(*.msi)		~
						<u>O</u> pen	Canc	el

• 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						-	
	cuts\Apps Registry	System resources					
	MSI	MST U	IWP APP	/ THI	NAPP		
Application Details			Transform	Options			
Application name			MSI settings profil	le			
Firefox			default			~	Edit
Publisher			Project folder				
Mozilla			C:\Users\pace	\Documents\I	MSI Generator\Packages	VPKG-1 Browse	Go to
Version	Product language		MSI file				
63.0.3	1033		Firefox.msi			 Browse 	Go to
Product code			Transform				
{B41A6750-72C9-4687-BDFC-658F9749FD1A}		New GUID	Properties		Update files	🗹 Update regist	y
Upgrade code			Features		Add files	🗹 Add registry	
{467AF3F0-F2CE-448D-BBAE-92C5FB66EB9E}	}	New GUID	:				
Generate new codes when build MSI			BUILD LOO	G Detect	ted MSI installations		Open log
Summary Information			Type Ela	ipsed	Step		
Title	Subject						
Installation Database							
Author	Keywords						
	Install,MSI						
Comments							
This installer database contains the logic and o	data required to install <prod< td=""><td>duct name>.</td><td></td><td></td><td></td><td></td><td></td></prod<>	duct name>.					
Platform	Languages		Elanced time				
x64 🗸	0		00:00			🖸 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.

E MENU Package Files Shortcuts/Apps Registry System resources MSI MSI UWP APPV THINAPP Application Details Transform Options Application name MSI settings profile Friefox default Publisher Project folder Mozilla C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Version Product language (43A598DD-0F52-4837-8386-D40E008C5173) New GUID Upgrade code If Properties (b67be978-A49D-4CDB-AEE2-02478E381867) New GUID Generate new codes when build MSI Sugect Summary Information Subject	Edit
MSI MSI UWP APPV THINAPP Application Details Application name Firefox Publisher Mozilla Version Product language 63.0.3 1033 Product code (J43A598DD-0F52-4837-8386-D40E00BC5173) New GUID Wersion Product code (J25E5978-A49D-4CDB-AEE2-02478E381867) New GUID Title Subject Mediations	Edit Go to
Application Details Transform Options Application name MSI settings profile Firefox default Publisher Project folder Mozilla C:\Users\pace\Documents\\MSI Generator\Packages\PKG-1 Browse Version Product language MSI file 63.0.3 1033 Firefox.msi Image: C:\Users\pace\Documents\\MSI Generator\Packages\PKG-1 Browse Version Product language MSI file Image: C:\Users\pace\Documents\\MSI Generator\Packages\PKG-1 Browse Version Product language Image: C:\Users\pace\Documents\\MSI Generator\Packages\PKG-1 Browse Version Product language Image: C:\Users\pace\Documents\\MSI Generator\Packages\PKG-1 Browse Version Image: C:\Users\pace\Documents\\MSI Generator\Packages\PKG-1 Browse MSI file Firefox.msi Image: C:\Users\pace\PMG-1 Image: C:\Users\pace\PmG-1 Browse Upgrade code Image: C:\Users\pace Image: C:\Users\pace Image: C:\Users\pace Image: C:\Users\pace Generate new codes when build MSI Subject Builto LOG Detected MSI installations Image: C:\Users\pace Image: C:\Users\pace Image	Edit Go to
Application name MSI settings profile Firefox default Publisher Project folder Mozilla C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Version Product language 63.0.3 1033 Product code (43A598DD-0F52-4837-8386-D40E008C5173) New GUID Upgrade code Image:	Edit Go to
Firefox default Publisher Project folder Mozilla C:\Users\pace\Documents\\MSI Generator\Packages\PKG-1 Version Product language 63.0.3 1033 Product code Firefox.msi (43A598DD-0F52-4837-8386-D40E00BC5173) New GUID Upgrade code If Properties (D67BE978-A49D-4CDB-AEE2-0247BE3B1867) New GUID I Generate new codes when build MSI Summary Information Title Subject	Edit Go to
Publisher Mozilla Version Product language 63.0.3 1033 Product code (43A598DD-0F52-4837-8386-D40E00BC5173) New GUID (43A598DD-0F52-4837-8386-D40E00BC5173) New GUID (1057BE978-A49D-4CDB-AEE2-0247BE3B1867) Summary Information Title Subject Product language Product code C \Users\pace\Documents\MSI Generator\Packages\PKG-1 Builty Log Builty Log Detected MSI installations Type Builty Log Detected MSI installation store Type Bapeed Step Output: Display:	Go to
Mozilla C_USers\pace\Documents\MSI Generator\Packages\PKG-1 Browse Version Product language MSI file Firefox.msi Version 63.0.3 1033 Transform Version Browse Version (43A598DD-0F52-4837-8386-D40E00BC5173) New GUID Version Transform (43A598DD-0F52-4837-8386-D40E00BC5173) New GUID Version Version Version Upgrade code Version Version Version Version Version (D67BE978-A49D-4CDB-AEE2-0247BE381867) New GUID Version Version Version Generate new codes when build MSI Subject BUILD LOG Detected MSI installations Version Title Subject 000012 Operation was completed successfully 000012 Verting data to the_Validation table	Go to
Version Product language 63.0.3 1033 Product code (43A598DD-0F52-4837-8386-D40E00BC5173) Version (43A598DD-0F52-4837-8386-D40E00BC5173) New GUID (Jop7aEg78-A49D-4CDB-AEE2-0247BE3B1867) Summary Information Title Subject MSI file Firefox.msi Version Image: Generate new codes when build MSI Summary Information Title Subject MSI file Firefox.msi Image: Generate new codes when build MSI Subject Build Log Detected MSI installations Type Elapsed Step Image: Generate new codes when build MSI Subject Build Log Detected MSI installations Type Elapsed Step Image: Generate new codes when build MSI Subject Build Log Detected MSI installations Type Elapsed Step Image: Generate new codes when build MSI Subject Detected MSI installations Type Elapsed Step Image	
Version Product singuage 63.0.3 1033 Product code Firefox.msi (43A598DD-0F52-4837-8386-D40E00BC5173) New GUID Upgrade code Image: Code (1677E978-A49D-4CDB-AEE2-0247BE3B1867) Image: Code Image: Generate new codes when build MSI Summary Information Title Subject	
Product code Transform [43A598DD-0F52-4837-8386-D40E00BC5173} New GUID Upgrade code If Properties [D677E978-A49D-4CDB-AEE2-0247BE3B1867] If Properties Generate new codes when build MSI New GUID Summary Information Type Title Subject	Golto
Image: code Image: code [43A598DD-0F52-4837-8386-D40E008C5173} New GUID Upgrade code Image: code [057BE978-A49D-4CDB-AEE2-0247BE3B1867] New GUID Image: Generate new codes when build MSI Summary Information Title Subject	00 10
(45A3960D-0732-4637-6566-040E000C5175) New GUID Image: Properties Image: Opdate files Image: Opda	
Upgrade code ✓ Features ✓ Add files ✓ Add reg [D67BE978-A49D-4CD8-AEE2-02478E3B1867] New GUID Generate new codes when build MSI BUILD LOG Detected MSI installations Summary Information 1 0x00012 Operation was completed successfully Title Subject 0x00012 Writing data to the (relatefoldior table	gisty
(D67BE978-A49D-4CD8-AEE2-02478E3B1867) New GUID Image: Subject Image: Generate new codes when build MSI Support Elapsed Step Summary Information 0x00012 Operation was completed successfully Title Subject Image: Subject	try
Generate new codes when build MSI BUIL LOG Detected MSI installations Type Elapsed Step Summary Information 0:00:12 Operation was completed successfully Title Subject 0:00:12 Writing data to the (relatefold) or table	
Type Elapsed Step Summary Information 0:00:12 Operation was completed successfully Title subject 0:00:12 Writing data to the "validation table	Open log
Summary Information 00:00:12 Operation was completed successfully Title Subject 00:00:12 Writing data to the _Validation table	A
Title Subject 00:00:12 Writing data to the _Validation table	
000012 Writing data to the CreateFolder table	
Installation Database	
00:00:12 Writing data to the AdvExecuteSequence table	
Author Keywords 000012 Writing data to the installExecuteSequence table	
Install,MSI 000012 Writing data to the CustomAction table	
Comments 0000012 Writing data to the MsAssemblyName table	
This installer database contains the logic and data required to install <pre>conduct name></pre>	
000012 Writing data to the Verk table	
Platform Languages Final data to the Verbilder	Ŧ
x64 0 0 Biapsed time 0000-13 C Open MST	Ÿ



4.3 Create MSP

Choose a scenario that better suits your needs:

- Generate MSP on Difference, described in section 4.3.1 Create a Patch (MSP) package, based on differences between two MSI packages: recent and old ones.
- Save Changes as MSP, described in section 4.3.2 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.

4.3.1 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 N	/ISI
Generate package report	
Deploy to SCCM	
Active scripting	
Compare packages	
Edit	•
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**.

(a) Open				×
← → · ↑ 🗔 › T	This PC > Desktop	v Ö	Search Desktop	Q
Organize 🔻 New fol	der			• 🔳 🕐
📌 Quick access	Name	Date modified 12/4/2018 11:59 AM	Type Windows Installer	Size 52,068 KB
 Desktop Downloads Documents Pictures OneDrive This PC Network Homegroup 	译 PACE_v5.0.0.msi	11/29/2018 3:03 AM	Windows Installer	51,391 KB
File	<u>n</u> ame: PACE_v5.0.0.msi	~	All Supported Files <u>O</u> pen	(*.msi;*.mst ∨ Cancel



- Select Create MSP against original MSI... from MENU.
 - MSI Editor PACE_v5.0.0.msi ■ MENU Package Summary Package Designer Tables Editor New MSI... Ctrl + N Complexity estimation New MST... Open... Ctrl + O Open recent Apply MST to MSI ... Remove MST from MSI Ctrl + S Save Files: Save as... Regis Create MSP against original MSI... Custo Complexity level: Generate package report... Medium Deploy to SCCM... Servi Active scripting... ODB Compare packages... ICE e Edit Import and export ۲ Validation Help Quit Alt + F4

Recalculate Export results to file

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

Oreate a Patch Package							×
•							
Original MSI	Type of update	Patch properties	Creating patch				
Choose original MSI package							
Choose an original MSI, which is a previous ver will be saved as a patch (MSP). Original MSI	sion of currently	opened package.	The difference	es between these	e two	package	25
					E	Browse	
			< Back	Next >		Cancel	



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

l Open					×
\leftrightarrow \rightarrow \checkmark \uparrow	> This PC	C > Desktop	√ Č	Search Desktop	م
Organize 🔻 Ne	ew folder				- 🔳 🔞
🕹 Quick accord	٩	lame ^	Date modified	Туре	Size
Culck access Culck access Culck access Downloads Documents Pictures Culck access Documents Documents Documents This PC Network Homegroup	* 1 * *	랑 PACE_v4.7.0.msi 랑 PACE_v5.0.0.msi	12/4/2018 11:59 AM 11/29/2018 3:03 AM	Windows Installer Windows Installer	52,068 KB 51,391 KB
	File <u>n</u> ame	PACE_v4.7.0.msi	v	Windows Installer	Database (*.r ∨ Cancel

• Click Next to define an update type.

🗐 Create a Patch Package					_		×
	•						
	Original MSI	Type of update	Patch properties	Creating patch			
Choose original M	ISI package						
Choose an original MSI, wh will be saved as a patch (M Original MSI	hich is a previous versi ISP).	on of currently (opened package. T	The differences bet	ween these t	wo packag	ges
C:\Users\pace\Desktop\P	ACE_v4.7.0.msi					Browse	·
				N	ext >	Cance	èl -

 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					$ \Box$:
		_			
	Original MSI	Type of update	Patch properties	Creating patch	
ype of update					
ncrease version for minor a roduct version	and major update and	d leave default \	value for small upd	ate	
5.0.0.4					
enerate new code only fo roduct code {CFE7D213-DB0C-4B8B-9	r major update and le 732-FF995F09B482}	eave default val	ue for minor and s	mall update	New GUID
Generate new code only fo roduct code {CFE7D213-DB0C-4B8B-93	r major update and le 732-FF995F09B482}	eave default val	ue for minor and s	mall update	New GUID
Senerate new code only fo Product code {CFE7D213-DB0C-4B8B-9 arget product name PACE Suite	r major update and le 732-FF995F09B482}	ave default val	ue for minor and s	mall update	New GUID
Generate new code only fo Product code {CFE7D213-DB0C-4888-9 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 GUID

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

							×
	~						
	Original MSI	Type of update	Patch properties	Creating patch			
Patch properties							
Display name							
PACE Suite 5.0.0.4 Patch							
Description							
Patch desription							
Include whole files only Changed files are to be in patch files will be bigger in	cluded in their entire n size but the API ru	ety when creatir ns faster.	ng the patch packa	age instead of creati	ng a binary fil	e patch.	The

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

Create a Patch Package							×
	~						
	Original MSI	Type of update	Patch properties	Creatin patch	g		
Creating patch							
	Creating	natch					
				< 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	



•

Click Finish to close t	the wizard.						\bigcirc	
Create a Patch Package							×	
	~							
	Original MSI	Type of update	Patch properties	Creating patch				
Creating patch								
Patch Package was created s	uccessfully.							
					Finish	Cance		
L								

4.3.2 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	
Open	Ctrl + O
openrecent	
Apply MST to MSI	
Remove MS1 from MSI	
Save	Ctrl + S
Save as	
Create MSP against origina	al MSI
Generate package report	
Deploy to SCCM	
Active scripting	
Compare packages	
Edit	
Import and export	
Validation	
Validation	,
Неір	•
Quit	Alt + F4

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

Open		×
← → ~ ↑ □ >	This PC > Desktop	✓ ♂ Search Desktop
Organize 🔻 New f	older	III 🔹 🔟 (
📥 Quick access	Name	Date modified Type Size
Desktop	PACE_v5.0.0.msi	11/29/2018 3:03 AM Windows Installer 51,391 KB
 Downloads Documents Pictures OneDrive This PC Network Homegroup 	* * *	
Fi	le <u>n</u> ame: PACE_v5.0.0.msi	 ✓ All Supported Files (*.msi;*.mst ∨ <u>O</u>pen 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 4.7.2
 Manage product name, version, language and manufacturer of the application.
 - For managing Package IDs see section 4.7.3 Manage product, upgrade and package codes.



- For managing Files and Folders see section 4.7.4
 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 4.7.5 Review package shortcuts, add new or import existing shortcuts, manage their properties.
- For managing Registry see section 4.7.6
 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 4.7.7 Manage custom and standard actions of the package, add new one to run scripts, EXE, etc.
- For managing Drivers see section 4.7.8
 Review the package device drivers, modify and add new ones.
- For managing Features and Components see section 4.7.9
 Review the feature-component structure and resources, linked with components. Add new features, components and manage their properties.
- For managing ARP Appearance see section 4.7.10
 Control how the package will be displayed in the App list (Add & Remove Programs).
- For managing Upgrades see section 4.7.11
 Manage the package upgrade settings to automatically upgrade previous MSI packages.
- For managing MSI Properties see section 4.7.12
 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 4.7.13
 Manage Summary Information of the opened MSI/MST.
- For managing MSI Tables see section 4.7.14 Add, import, drop MSI tables.
- For managing Merge Modules, described in section 4.7.15
 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. 	
 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.

				-		×
	•					
	Type of update	Patch properties	Creating patch			
Type of update						
Increase version for minor and m Product version	ajor update and leave	default value for s	small update			
5.0.0.4						
CFE7D213-DB0C-4B8B-9732-FF Target product name PACE Suite	995F09B482}				New Gl	JID
CFE7D213-DB0C-4B8B-9732-FF Target product name PACE Suite Review the instructions to create a pate	995F09B482}				New Gl	JID
{CFE7D213-DB0C-488B-9732-Ff Target product name PACE Suite Review the instructions to create a pate	-995F09B482}				New Gl	JID
{CFE7D213-DB0C-488B-9732-FF Target product name PACE Suite Review the instructions to create a pate	:995F09B482}				New Gl	JID
{CFE7D213-DB0C-488B-9732-FF Target product name PACE Suite Review the instructions to create a pate	:995F09B482}				New Gl	JID
{CFE7D213-DB0C-488B-9732-FF Target product name PACE Suite Review the instructions to create a pate	-995F09B482}				New Gl	JID

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

Create a Patch Package				_		Х
	~ —	_				
	Type of update	Patch properties	Creating patch			
Patch properties						
Display name						
PACE Suite 5.0.0.4 Patch						
Description						
Patch desription						
Include whole files only Changed files are to be included in patch files will be bigger in size but	their entirety whe the API runs fast	en creating the pa er.	tch package instead of cr	reating a binary fi	le patch.	The
			< Back	Create >	Cance	2

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

Create a Patch Package					_	×
	Type of update	Patch properties	Creating patch			
Creating patch		properties.	Paran			
	Creating patch					
			< Back	Finish	Cance	I

٥

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

🔘 Save As			-				×
\leftarrow \rightarrow \checkmark \uparrow	→ Thi	is PC > Desktop		ٽ ~	Search Desktop		٩
Organize 🔻 Ne	ew folde	r					?
🔹 Quick access	^	Name	^	Date modified	Туре	Size	
Desktop	*		No item	is 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:	Windo	ows Installer Patch (*.msp)					~
∧ Hide Folders					<u>S</u> ave	Cancel	



•

Create a Patch Package				-	- 🗆)	×
	0 —	•				
	lype of update	Patch properties	patch			
Creating patch						
Patch Package was created success	sfully.					
			/ Back	Finish	Cancel	
			< Dack	Finish	Cancel	



4.4 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 4.4.1 Create a blank project in MSI Generator, add files, registry, select package settings and build MSIX/APPX package.
- Repackage EXE to MSIX/APPX, described in section 4.4.2
 Repackage your source installation (EXE, MSI, VBS, CMD, etc.) into MSIX/APPX package using MSI Generator.

4.4.1 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 4.8.2
 - o Regarding Registry see section 4.8.3
- For managing MSIX/APPX Settings such as display and identity properties, apps and their visual assets, capabilities, signature, dependencies, bundle, AppInstaller, see section 4.8.7



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

Edit package - PKG-190430-144511.mgp			- 🗆 X
■ MENU Package Files Shorte	cuts\Apps Registry System resources		
	MSL MST II	NP ADDV THINADD	
Display properties		UWP package options	
Package logo (50x50)		Package format	
Browse		MSIX	~
Display name	Publisher display name	Application root folder	
Firefox	Mozilla	C:\Program Files (xo6)\Viozilia Firefox	
Description		Interrupt building the package for manual equipation of the package for manual equipation.	diting the manifest
Mozilla Firefox		C:\Users\pace\Documents\MSI Generator\Pac	kages\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	
supported platforms.	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.			
Edit appinstaller		Elapsed time 00:00 Review the	UWP application limitations 😚 Build UWP

 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			- <u> </u>
≡ 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	~
Browse		Application root folder	
Display name	Publisher display name	C:\Program Files (x86)\Mozilla Firefox	~
Firefox	Mozilla	Interrupt building the package for manual e	editing the manifest
Description		Project folder	
Mozilla Firefox		C:\Users\pace\Documents\MSI Generator\Pa	ckages\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 signatura	Name	Publisher
Edit capabilities	Edit signature	Moziliariretox	CN=Mozilia
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
	F (5) (15) (1	Type Elapsed Step	*
Edit dependencies	Edit architectures	00:00:21 Operation was com	pleted successfully
App Installer		00:00:01 Creating C:\Users\;	bace\Documents\MSI Generator\Packages\PKG-190430
Contraction of the second		00:00:01 Exporting registry	
Generate the App Installer file to distribute and update your application with a single click	1	00:00:00 Processing files	
Edit appinstaller		Elapsed time 00:00:22 Review the	UWP application limitations

• 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.

4.4.2 Repackage EXE 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	Capturing	Settings	Installation	Completion			
		computer	method	bettingb		compression			
re	epare the con	nputer for	capturing						
is s voie irtu	strongly recommen d capturing data, w al 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	nine with all non-e o, in case of any fa	ssential processe ilure, you will be	s stopped able to re	d in orde estore th	er to ie
Des	cription		Resolution						
0	Diagnostic Policy Sen	vice is active.	Stop this servi	ice before capturin	g.				
0	Windows Defender A	ntivirus Service is a	ctive. Stop this servi	ice before capturin	g.				
Ð	Security Center is acti	ve.	Stop this servi	ice before capturin	g.				
0	Windows Search is ac	tive.	Stop this servi	ice before capturin	g.				
0	Windows Defender is	running.	Close your an	tivirus software bef	ore capturing.				
	Refresh					Review the capt	turing reco	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 captur	ing method	ł						
Monitor This me	ring (quick) thod watches the	installation and r	records system ch	anges to a packa	ge.			
O Snapsho This me differen	otting (configurab thod creates two ce between snap	ble) system snapshot shots. Use this op	s (before and afte tion if your source	er the installation) e installation requ	and builds a pack uires the system res	age, bas start.	ed on	
				K 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				5		_		×
	Prepare computer	Capturing method	Settings	Installation	Completion			
Settings								
Package name								
PKG-190814-140719								
Exclusion filters			Scanning	areas				
Apply the following Extended Standard	filters 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 insta	Illation							\times
	~		~					
	Prepare computer	Capturing method	Settings	Installation	Completion			
Install yo	ur applications	now						
Now is the tim the "Select an	ne to run installers of th d run" functionality.	e applications, whic	ch you want to c	apture. You can ru	un installers either r	manually	or usin	9
Select an	d run							
Detected MSI In:	stallation							
State	Copied Name							
Note that it is capturing and	not recommended to r switch to customizing	epackage MSI to N them via a transfor	ISI. If you have in m in Editor.	nstantly detected a	and copied MSI ins	tallation	s, cance	:I
Once the insta	allation is completed, se ned the installation	elect "I have finished	d the installation	" and click "Next".				
				< Back	Next >		Cance	

- Select the installer file (e.g. Firefox Setup.exe) and click Open. Oper \times ✓ ひ Search Downloads Q Organize 🔻 New folder 8== 🗸 2 Name Date modified Type Size 📌 Quick access 骨 Firefox Setup.exe 9/13/2017 4:24 PM Application 33,209 KB Desktop 🕹 Downloads Documents Pictures a OneDrive This PC Network • Homearoup Installer files (*.*) File name: Firefox Setup.exe \sim \sim <u>O</u>pen Cancel
- 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	I							Х
		Ø	.		-				
	F	Prepare omputer	Capturing method	Settings	Installation	Completion			
Install you	r applic	ations no	wc						
Now is the time the "Select and	e to run insta run" functi	allers of the a ionality.	applications, whic	h you want to ca	pture. 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 recomme witch to cus	ended to rep stomizing the	ackage MSI to M em via a transforr	SI. If you have in: m in Editor.	stantly detected a	nd copied MSI ins	tallations	s, cancel	
Once the install	lation is con ed the instal	npleted, seleo lation	ct "I have finished	the installation"	and click "Next".				
					< Back	Next >		Cancel	

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

Capture inst	allation								×
									
	C	Prepare computer	Capturing method	Settings	Installation	Completion			
nstall yo	ur applio	cations n	ow						
√ow is the tir he "Select ar	ne to run ins nd run" func	tallers of the a tionality.	applications, whic	th you want to ca	apture. You can ru	n installers either	manually	or usin	g
Select ar	nd run								
etected MSI Ir	nstallation								
State	Copied	Name							
Note that it is state Note that it is apturing and Drice the inst I have finis	stallation Copied	Name hended to rep ustomizing the mpleted, sele allation	backage MSI to M em via a transforr ct "I have finished	ISI. If you have ir m in Editor. d the installation'	stantly detected a and click "Next".	nd copied MSI in:	stallation	s, cance	1
Vote that it is capturing and Drice the inst I have finis () 00:08 S	stallation Copied	Name nended to rep ustomizing the mpleted, 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'	stantly detected a and click "Next".	nd copied MSI in:	stallation	s, cance	

• 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 r / resources using	registry, which de editor.	o not belong to yo	our application, ma	ay affect	package	5
 Customize p Stop now ar 	roject in editor Id 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: Permissions:	1							
Printers:	0							
				< Back	Finish		Cancel	
				, oden)	2011001	

• 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			
Iompl	etion			
he followir	g files could not be copied to the project folder because they are locked or missing:			
State	File path			
Locked	C:\Users\pace\ntuser.dat.LOG1			
Locked	C:\Users\pace\NTUSER.DAT			
Missing	C:\Users\pace\AppData\Local\Temp\b8b61adf-14ff-4926-95ef-16f3638de72f\snapshot2.xml			
Locked	C:\Users\pace\AppData\Local\Microsoft\Windows\UsrClass.dat.LOG1			
Locked	C:\Users\pace\AppData\Local\TileDataLayer\Database\EDB.log			
Locked	C:\Windows\System32\config\SOFTWARE.LOG1			
Retry				
ry to rest opying lo	pre missing and unlock locked files and then click "Retry". Click "Finish" to proceed creating the project ar cked and missing files to the project folder. Note that such files will be marked as "Excluded".	nd skip		
	K Back	Cance		

- 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-190430-144511.mgp					- 🗆 ×
≡ MENU Package Files Shortcu	its\Apps Registr	y System resources			
Files and folders			Include	ed: 124 files (197,6 MB)	Collapse all
Name			Туре	Size Stat	te
🖃 🔤 C:			Folder	Cha	anged
 Program Files (x86) 			Folder	Cha	anged
🗉 🔜 🔍 Mozilla Firefox			Folder	Adv	ded
🗉 🔜 Mozilla Maintenance Service			Folder	Ade	ded
ProgramData			Folder	Cha	anged
Microsoft			Folder	Cha	anged
Users			Folder	Cha	anged
			Folder	Cha	anged
Public			Folder	Cha	anged
Windows			Folder	Cha	anged
appcompat			Folder	Cha	anged
Prefetch			Folder	Chi	anged
System 32			Folder	Cha	anged
config Import files			Folder	Cha	anged
DE New subfolder			LOG2	202,0 KB Cha	anged
SO Proportion	E2		LOG1	16,0 MB Cha	anged
SY. Move to folder	12		LOG1	1004,0 KB Cha	anged
B Sleeps Nove to Tolder	D.I.		Folder	Cha	anged
Us Exclude	Dei		ETL	320,0 KB Cha	anged
B winevt Add to exclusion fil	ter 🕨		Folder	Cha	anged
E Lo Delete	Shift+Del		Folder	Cha	anged
Temp APPV virtualization	level +		Folder	Cha	anged
Add 🔺 Exclude					

 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 packa	ge - PKG-190430-1	44511.mgp								- U X
≡ menu	Package	Files	Shortcuts\Apps	Registry	Syste	m resources				
Application					N	Application	APPV			
Firefox	New applicatio	on D. I	_			Display name Firefox				
	Delete	Dei Shift+D	el			Description Firefox Executable				
						C:\Program Files (x8	6)\Mozilla Firefox\firefo	DX.EXE		Browse
						Background color Transparent				✓ Pick color
					0	Short name				
						App list logo (44x44)	Small logo (71x71)	Medium logo (150x150)	Wide logo (310x150)	Large logo (310x310)
						•	<no logo=""></no>	9	<no logo=""></no>	<no logo=""></no>
						Browse Show name on	Browse	Browse	Browse	Browse
Add	Exclud	de				🗌 Medium logo	🗆 Wide logo 🛛 🗆 L	arge 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 valu	es 💙 Collapse	e all
Name					Туре	Value	State	1
HKEY	_CLASSES_ROOT				System hive			
HKEY	_CURRENT_USER				System hive			
🖃 🛄 S	oftware				Key		Changed	
• C	Classes				Key		Changed	
8	Microsoft				Key		Changed	
6	🗉 📗 AuthCookies				Key		Changed	
	🕀 📕 Live	Import registry			Key		Changed	
6	🗉 📗 IdentityCRL	Export registry			Key		Changed	
	🕀 🔚 Immersiv	New key			Кеу		Changed	
6	H Windows	Newvalue			Кеу		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	
	Mozilla	Delete	Shift+Del		Key		Added	
•	Policies				Key		Changed	
٠	RegisteredApplic	APPV virtualization lev	vel 🕨		Key		Changed	
Đ	WOW6432Node				Key		Changed	
🖃 S	ystem				Key		Changed	
-	CurrentControlSe	t			Key		Changed	
6	Services				Key		Changed	
	MozillaM	aintenance			Key		Added	
- 0-	SharedAc	CESS			Key		Changed	
HKEY	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 4.8.7
- 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 Short	cuts\Apps Registry	System resource	S									
	MSI	MST	UWP	A	PPV	THI	NAPP					
Display properties			ι	JWP pa	ckage	optic	ons					
Package logo (50x50)			P	ackage form	at							
			١	ASIX								~
browse			A	pplication ro	ot folder							
Display name	Publisher display name			:\Program	Files (x86	5)\Mozil	la Firefox					~
Firefox	MOZIIIa			Interrupt	building t	the pack	age for manual	editing the mani	ifest			
Description			P	roje <mark>ct fold</mark> er								
				C:\Users\p	ace\Docu	ments\/	VISI Generator\P	ackages\PKG-1	Browse		Go to	
Capabilities	Signature				1.1.1.1.1.1							
Declare access to the protected user resources	Sign the generated pack	age/bundle.	P	аскаде	laenti	ity						
-			i N	ame				Publisher				
Edit capabilities	Edit signature			MozillaFire	fox			CN=Mozilla	3			
Dependencies	Architectures &	Bundle	V	ersion								
Specify package type (main/modification) and	Set the compatible proc	accor architacturas a	ed.	63.0.3.0								
supported platforms.	bundle options.	essor architectures a		BUILD	LOG					C	Open lo	9
Edit dependencies	Edit architectures			Туре	Elapsed		Step					
Eardependencies	Eart Breniteetares											
App Installer												
Generate the App Installer file to distribute and update your application with a single click.	1											
Edit appinstaller			E	lapsed time 0:00			Review th	e UWP application	limitations	🛟 Bu	ild 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 Shortc	uts\Apps Registry System resources MSI MST UV	VP	APPV	THINAPP			
Display properties		UWP p	ackage	options			
Package logo (50x50)		Package for	mat				
·		MSIX					
Browse		Application	root folder				
Display name	Publisher display name	C:\Progra	m Files (x86)	\Mozilla Firefox			
Firefox	Mozilla						
Description		🗆 Interrup	ot building th	ne package for manua	editing the mani	fest	
Mozilla Firefox		Project folde	er				
		C:\Users\	pace\Docur	nents\MSI Generator\I	ackages\PKG-1	Browse	Go to
Capabilities	Signature	Decker	a idaatii	.			
·	- Sign the generated package/bundle	Раскад	e identi	ty			
vectore access to the protected user resources.	Sign the generated package/buildle.	Name			Publisher		
Edit capabilities	Edit signature	MozillaFir	refox		CN=Mozilla		
		Version					
Dependencies	Architectures & Bundle	63.0.3.0					
pecify package type (main/modification) and	Set the compatible processor architectures and	DUUU					Open loc
upported platforms.	bundle options.	BUILI	D LOG				openiog
Edit dependencies	Edit architectures	Type	Elapsed	Step	malated sussessfully		
		1 i i i	00:00:21	Creating C:\User	Appleted successfully hpace\Documents\M	SI Generator\Packa	ges\PKG-190430
App Installer		1	00:00:01	Generating mani	est Manifest_neutral.	xml	9000000000
• •			00:00:01	Exporting registr	(
pdate your application with a single click.			00:00:00	Processing files			
		Elapsed tim	e				
Edit appinstaller		00:00:22		Review t	ne UWP application I	imitations	🗘 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.



×

4.5 Create APPV



Choose a scenario that better suits your needs:

- Create APPV from Scratch, described in section 4.5.1 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 EXE to APPV, described in section 4.5.2 Repackage your source installation (EXE, MSI, VBS, CMD, etc.) into APPV 5.0/5.1/1607 (5.2) package using MSI Generator.

4.5.1 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 4.8.2
 - o Regarding Registry see section 4.8.3
- 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 4.8.8



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

© Edit package - PKG-190430-144511.mgp	- 🗆 X
MSI MSI 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	Go to
App-V Settings	
Primary virtual annication directory (PV&D)	
Do not use PVAD (default)	Open log
Streaming options Type Flanced Step	openiog
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 Each Resource Veloce Objects	
Li triable browser helper Objects Elapsed time 00:00	🗳 Build APPV

• 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	TH	INAPP				
Applicati	on Detail	S				Ар	p-V Packa	age Op	otions				
Application nam	ne					App-	V version						
Firefox						App	o-V 5.2 (1607) p	package fo	ormat version				~
Version						Packa	age name						
63.0.3						PK	G-190430-1445	511					
Publisher						Pack	age folder						
Mozilla						C\	Users\pace\Do	ocuments\	MSI Generator\Packages\PKG-1	Browse		Go to	
									·····				
App-V Se	ettings					Desc	ription						
Primary virtual a	application direc	tory (PVAD)											
Do not use P	VAD (default)					~	RUNDLOG				(Doen la	na
Streaming optio	ons					Turn	Elanca	d	Cton			- penne	
Force appl	ication to be f	ully downlo	aded before launchin	a		тур	00:00:	30	Operation was completed successfully				-
Target OS		- ,					00:00:0	06	Saving package				
 Allow this r 	package to be	run on any	operating system				00:00:0	06	Processing software clients				
O Allow this p	backage to be	run only o	n the selected operati	ing systems			00:00:0	06	Processing environment variables				
Select O	S						00:00:0	06	Processing URL protocols				
beleero							00:00:0	05	Processing application capabilities				
Advanced optio	ns						00:00:0	05	Processing FTAs				
Allow all na	amed objects	to interact \	with the local system				00:00:0	05	Processing browser plugins				
Allow all C	OM objects to	interact wi	th the local system				00:00:0	05	Processing COM objects				
🗆 Allow virtu	al application	full write pe	ermissions to the virtu	al file system			00:00:0	05	Processing registry				
🗌 Enable Bro	wser Helper C	Objects							·····				-
						Elaps 00:00	sed time 0.30				🕆 Bu	ild APP	V
						00.00							



4.5.2 Repackage EXE 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 Uk File origin: Hard drive on this c	craine LLC omputer							
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	Capturing	Settings	Installation	Completion			
		computer	method	bettingb		compression			
re	pare the con	nputer for	capturing						
is s voi irtu he f	strongly recommen d capturing data, w al 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	nine with all non-e o, in case of any fa	ssential processe illure, you will be	s stopped able to re	d in orde estore th	er to le
Des	cription		Resolution						
0	Diagnostic Policy Serv	vice is active.	Stop this servi	ice before capturin	g.				
0	Windows Defender A	ntivirus Service is a	ctive. Stop this servi	ice before capturin	g.				
Ð	Security Center is acti	ve.	Stop this servi	ice before capturin	g.				
0	Windows Search is ac	tive.	Stop this servi	ice before capturin	g.				
0	Windows Defender is	running.	Close your an	tivirus software bef	ore capturing.				
	Refresh					Review the capt	turing reco	mmendat	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	9						×
~							
Prepare computer	Capturing method	Settings	Installation	Completion			
Select a capturing metho	d						
Monitoring (quick) This method watches the second	he installation and r	records system ch	nanges to a packa	ige.			
 Snapshotting (configure This method creates two difference between snapshotting 	able) ro system snapshot Ipshots. Use this op	s (before and afte stion if your sourc	er the installation) e installation requ	and builds a pack uires the system res	age, bas start.	sed on	
			K 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				5		_		×
	Prepare computer	Capturing method	Settings	Installation	Completion			
Settings								
Package name PKG-190814-140719								
Exclusion filters			Scanning	j areas				
Apply the following f	ilters to the capti	ured resources:		cation objects: Permissions Services Printers				
				< Back	Next >		Cancel	

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

Capture installation								\times
	0	~						
	Prepare computer	Capturing method	Settings	Installation	Completion			
Install your app	lications n	ow						
Now is the time to run the "Select and run…" fi	installers of the unctionality.	applications, whic	h you want to c	apture. You can ru	n installers either	manually	or using	9
Select and run								
Detected MSI Installation								
State Copied	Name							
Note that it is not reco capturing and switch to	mmended to rep o customizing th	oackage MSI to M em via a transforr	SI. If you have ir n in Editor.	nstantly detected a	and copied MSI in:	stallations	s, cancel	
Once the installation is	completed, sele nstallation	ct "I have finished	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 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 install	ation		~~~~						×
		Ø ——	•		-				
	F	Prepare pmputer	Capturing method	Settings	Installation	Completion			
Install you	r applica	ations no	w						
Now is the time the "Select and	to run insta run" functi	allers of the a ionality.	pplications, whic	h you want to ca	pture. You can ru	n installers either n	nanually	or using	9
Select and	run								
Detected MSI Inst	allation								
State	Copied	Name							
Note that it is n capturing and s	ot recomme witch to cus	ended to rep stomizing the	ackage MSI to M em via a transforr	SI. If you have in: m in Editor.	stantly detected a	nd copied MSI inst	allations	s, cancel	
Once the install I have finishe	ation is corr ed the install	npleted, selec lation	t "I have finished	the installation"	and click "Next".				
					< Back	Next >		Cancel	

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

Capture inst	allation								×
									
	c	Prepare computer	Capturing method	Settings	Installation	Completion			
nstall yo	ur applio	cations n	ow						
√ow is the tir he "Select ar	ne to run ins nd run" func	tallers of the a tionality.	applications, whic	th you want to ca	apture. You can ru	n installers either	manually	or usin	g
Select ar	nd run								
etected MSI Ir	nstallation								
State	Copied	Name							
Note that it is state Note that it is apturing and Drice the inst I have finis	stallation Copied	Name hended to rep ustomizing the mpleted, sele allation	backage MSI to M em via a transforr ct "I have finished	ISI. If you have ir m in Editor. d the installation'	stantly detected a and click "Next".	nd copied MSI in:	stallation	s, cance	1
Vote that it is capturing and Drice the inst I have finis () 00:08 S	stallation Copied	Name nended to rep ustomizing the mpleted, 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'	stantly detected a and click "Next".	nd copied MSI in:	stallation	s, cance	

• 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 r / resources using	registry, which de editor.	o not belong to yo	our application, ma	ay affect	package	5
 Customize p Stop now ar 	roject in editor Id 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: Permissions:	1							
Printers:	0							
				< Back	Finish		Cancel	
				, oden)	2011001	

• 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		
	comparent menoa		
lamo	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		
liccipa	C:\Users\pace\NTUSER.DAT		
nssing	C:\Users\pace\AppData\Local\Microsoff\Windows\UsrClass.dat.IQG1		
ocked	C:\Users\pace\AppData\Loca\\TileDataLayer\Database\EDB.log		
ocked	C:\Windows\System32\config\SOFTWARE.LOG1		
Dete			
Ketry			
/ to rest	ore missing and unlock locked files and then click "Retry". Click "Finish" to proceed creating the project and skip		
pying la	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, 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						- 0	×
≡ MENU Package	Files Shortcuts	Apps Regis	try System	resources				
Files and folders	5				Include	d: 124 files (197,6 MB)	Collapse	e all
Name					Туре	Size	State	
- C:					Folder		Changed	
Program Files ((x86)				Folder		Changed	
🕀 🛄 🔍 Mozilla	Firefox				Folder		Added	
🕀 🔜 Mozilla Ma	intenance Service				Folder		Added	
ProgramData					Folder		Changed	
 Microsoft 					Folder		Changed	
Users					Folder		Changed	
					Folder		Changed	
🗉 📄 Public					Folder		Changed	
Windows					Folder		Changed	
🗄 🛄 appcompa	ŧ				Folder		Changed	
Prefetch					Folder		Changed	
 System32 					Folder		Changed	
🖃 🔛 config	Import files				Folder		Changed	
DE	New subfolder				LOG2	202,0 KB	Changed	
SO 📄	Properties	E2			LOG1	16,0 MB	Changed	
SY:	Properties Manage (addition	F2			LOG1	1004,0 KB	Changed	
🖃 🚞 SleepS	Move to folder				Folder		Changed	
🗎 Us	Exclude	Del			ETL	320,0 KB	Changed	
🖃 🔛 winevt	Add to exclusion filter	•			Folder		Changed	
🕀 🛄 Log	Delete	Shift+Del			Folder		Changed	
🕀 🛄 Temp	APPV virtualization lev				Folder		Changed	
Add 🔺 Exc	lude							

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.mg	р								-		×
≡ MENU	Package Files	Shortcuts\Apps	Registry S	System	n resources							
				MS	SI UWP	APPV						
Application					Application							
firefox]	Name							
	New applica	ation			firefox							
	Exclude	Del			Version							
	Delete	Shift+Del			63.0.3.0							
					Application path							
					C:\Program Files	(x86)\Mozilla Firefox\firefox.exe				E	rowse	
					Shortcuts			File Type As	sociations			
					Name	Folder		Extension	Progld			
					Firefox	C:\Users\Public\Desktop	_	.html	FirefoxHTML-E7CF17	6E110C2	211B	
				:	Firefox	C:\ProgramData\Microsoft\Windows\.	_					
					Add	Exclude		Add	Exclude			
Add	Exclude											



≡ 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	
8	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 4.8.8
- 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-19	0430-144511.mg	р			-				- C		×
	ge Files	Shortcuts\Apps	Registry	System resources							
			MSI	MST	UWP	APPV	THINAPP				
Application De	tails				Ap	o-V Packa	ae Options				
Application name					Ann	Lucrice	5F				
Eirofox					App-	V 5 2 (1607) pr	schade format version				~
Firelox					App	-v 5.2 (1607) pa	ackage format version				•
Version					Packa	ge name					
63.0.3					PKG	6-190430-14451	1				
Publisher					Packa	ge folder					
Mozilla					C:\\	Jsers\pace\Doc	:uments\MSI Generator\Packages\PKG-1	Browse	Go	o to	
App-V Settings	directory (PVAD)			Descr	iption					
Do not use PVAD (det	ault)				•	RUUDIOG			Op	en loa	1
Streaming options					Тур	Elapsed	Step				·
Force application to	be fully down	loaded before launchin	g.			00:00:30	Operation was completed successfully	/			
Target OS						00:00:06	Saving package				
 Allow this package 	to be run on ar	ny operating system				00:00:06	Processing software clients				
 Allow this package 	to be run only	on the selected operati	ng systems			00:00:06	Processing environment variables				
Select OS						00:00:06	Processing URL protocols				
Advanced options						00:00:05	Processing application capabilities Processing FTAs				
	iaste ta intaras	t with the local system				00:00:05	Processing browser plugins				-
	ects to interac	with the local system				00:00:05	Processing COM objects				
	cis io interact \	with the local system	- I El t-			00:00:05	Processing services				
Allow Virtual applica	ation full write (permissions to the virtu	ai tile system			00:00:05	Processing registry				-
LI Enable Browser Hel	per Objects				Elaps 00:00	ed time :30		6) Build	I APP\	/



4.6 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 4.6.1 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 EXE to THINAPP, described in section 4.6.2 Repackage your source installation (EXE, MSI, VBS, CMD, etc.) into THINAPP package using MSI Generator.

4.6.1 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 4.8.2
 - o Regarding Registry see section 4.8.3
- For managing THINAPP Settings such as entry points, primary data container, compression, file system isolation mode, sandbox location and the like, see section 4.8.9
- 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								-		\times
≡ MENU Package Files	Shortcuts\Apps	Registry	System resources							
		MSI	MST	UWP	APPV	THINAPP				
ThinApp Settings				ThinA	op Packa	age Options				
Entry points				Inventory r	name					
Name Des	cription		-	Firefox						
✓ Firefox.exe C:\P	rogram Files (x86)\Mozilla F	Firefox\firefox.ex	e	Genera	ate MSI pack	(ade:				
crashreporter.exe C:\P	Program Files (x86)\Mozilla F	Firefox\crashrep	orter.exe	Mozi	lla Maintena	nce Service.msi				
tirefox (1).exe C:\P	rogram Files (x86)\Mozilla F	Firefox\tirefox.ex		Desired in a						
maintenanceservice.exe C:\P	Program Files (x86)\Mozilla F	Firefox\maintena	nceservice installer.ex	Cillions		manta) MSL Concretes' Packages' RVC 1	Province	6	o to	
minidump-analyzer.exe C:\P	rogram Files (x86)\Mozilla F	Firefox\minidum	p-analyzer.exe	C.(Osers	(pace/Docu	ments (MSFGenerator (Fackages (FKG-1	browse	G	0 10	
pingsender.exe C:\P	rogram Files (x86)\Mozilla F	Firefox\pingsend	er.exe	Build [Details					
plugin-container.exe C:\P	rogram Files (x86)\Mozilla F	Firefox\plugin-co	ntainer.exe 👻		4-0					
4			Þ		+-V hitacturaCha					
Primary data container					Intectures no	wetom=Win7				
 Use one of the entry points 					ouverronis	ystern=vviii/				
Firefox.exe			~	O Only p	repare Thin/	App package structure				
O Use separate .DAT file				• Prepar	e minApp p	ackage structure and build the package				
Firefox.dat				BUII	LD LOG			Or	pen log	3
Compression				Type	Elapsed	Step				
Compress virtual package						p				
File system isolation mode										
Full write access to non-system directo	ries (Meraed)		~							
Condition location										
Iser profile (%AppData%)Thinstall)										
O Custom location										
			Browse	Elapsed tir 00:00	ne		Ŷ	Build	THINA	NPP

• 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 p	oackage - PKG-1	90430-1	44511.m	gp								-		\times
	NU Pack	age	Files	Shortcuts\Apps	Registry	System resources	5							
					MSI	MST	UWP	APPV	THINAPP					
Thin/	App Setti	ngs					Thin	App Pack	age Options					
Entry po	ints						Invento	ry name						
	Name			Description			 Firefo 	x						
V	Firefox.exe			C:\Program Files (x86)\Mozill	la Firefox\firefox.e	xe		ante MCI par	kanai					
	crashreporter.exe			C:\Program Files (x86)\Mozill	la Firefox\crashre	oorter.exe		erate ivisi pac	kaye.					
	firefox (1).exe			C:\Program Files (x86)\Mozill	la Firefox\firefox.e	xe	IVIC	ozilia iviaintena	ance Service.msi					
	maintenanceserv	ce.exe		C:\Program Files (x86)\Mozill	la Firefox\mainter	anceservice.exe	Project	location						
	maintenanceserv	ce_instal	ler.exe	C:\Program Files (x86)\Mozill	la Firefox\mainter	anceservice_installer.ex	C:\Us	ers\pace\Docu	uments\MSI Generator\P	ackages\PKG-1	Browse	G	o to	
	minidump-analy;	er.exe		C:\Program Files (x86)\Mozill	la Firefox\minidur	np-analyzer.exe								
	pingsender.exe			C:\Program Files (x86)\Mozill	la Firefox\pingsen	der.exe	Build	d Details						
	plugin-container	exe		C:\Program Files (x86)\Mozill	la Firefox\plugin-	ontainer.exe	▼ □ Wo	w64=0						
4								rchitoctureSh	orteut=1					
Primary	data container							-D-thi-E-th	Sincer Min 7					
O Use	one of the ent	ry poin	ts					dDotivetFrom:	system=win7					
Firef	fox.exe						 O Only 	y prepare Thin	App package structure					
O Use :	separate .DAT	file					Prep	pare ThinApp (package structure and bu	uild the package				
Fire	efox dat											-		
							В	UILD LOG				Op	ben log	1
Compres	ssion						Туре	Elapsed	Step					-
Corr	npress virtual p	ackage						00:00:12	SUCCESS: Firefox	exe, size=2560k				
File syste	em isolation mod	e						00:00:11	Firefox.exe:					
Full wri	ite access to n	on-svst	em dire	ctories (Meraed)				00:00:11	Enterprise Edition,	licensed to demo				
		.,		. 3/				00:00:11	Copyright 1998-20	016, VMware, Inc. All	rights reserved.			
Sandbox	location	_						00:00:11	VMware ThinApp	Runtime Linker Versi	on 5.2.2-4435715, Bu	uilt Sep 2	26 2016	
 User 	profile (%App	Data%	\ I hinsta	II)				00:00:08	Adding \VMware\	VMware ThinApp\TA	Surrogate64.exe 16	7424 byt	es (100	Ŧ
O Cust	om location					Browse	Elapsed	l time			ல்	Build i	THINA	PP
							00.00:1	-						

4.6.2 Repackage EXE 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?								
MSI Generator								
Verified publisher: Infopulse Uk File origin: Hard drive on this c	craine LLC omputer							
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			
Pre	pare the con	nputer for	capturing						
is s voi irtu he f	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 syst	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 ailure, you will be a	stopped i ble to res	in orde tore th	er to
Des	cription		Resolution						
0	Diagnostic Policy Serv	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.				
Ð	Security Center is acti	ve.	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	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	9						×
~							
Prepare computer	Capturing method	Settings	Installation	Completion			
Select a capturing metho	d						
Monitoring (quick) This method watches the second	he installation and r	records system ch	nanges to a packa	ige.			
 Snapshotting (configure This method creates two difference between snapshotting 	able) ro system snapshot Ipshots. Use this op	s (before and afte stion if your sourc	er the installation) e installation requ	and builds a pack uires the system res	age, bas start.	sed on	
			K 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				5		_		×
	Prepare computer	Capturing method	Settings	Installation	Completion			
Settings								
Package name PKG-190814-140719								
Exclusion filters			Scanning	j areas				
Apply the following f	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 installat	tion							×
			~					
	Prepare computer	Capturing method	Settings	Installation	Completion			
Install your	applications n	ow						
Now is the time t the "Select and ru	o run installers of the un" functionality.	applications, whic	:h you want to c	apture. You can ru	ın installers either r	manually	or usin	g
Select and r	un							
Detected MSI Install	lation							_
State	Copied Name							
Note that it is not capturing and sw	t recommended to re vitch to customizing th	package MSI to M nem via a transform	ISI. If you have ir m in Editor.	stantly detected a	and copied MSI ins	tallation	s, cance	1
Once the installat	tion is completed, sele I the installation	ect "I have finished	d the installation	and click "Next".				
				< Back	Next >		Cance	l

- 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 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	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 install	ation	I							Х
		Ø	.		-				
	F	Prepare Omputer	Capturing method	Settings	Installation	Completion			
Install you	r applic	ations no	wc						
Now is the time the "Select and	e to run insta run" functi	allers of the a ionality.	applications, whic	h you want to ca	pture. 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 recomme witch to cus	ended to rep stomizing the	ackage MSI to M em via a transforr	SI. If you have in: n in Editor.	stantly detected a	nd copied MSI ins	tallations	s, cancel	
Once the install	lation is con ed the instal	npleted, seled lation	ct "I have finished	l the installation"	and click "Next".				
					< Back	Next >		Cancel	

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

Capture inst	allation								Х
									
		Prepare computer	Capturing method	Settings	Installation	Completion			
nstall yo	ur appli	cations n	ow						
√ow is the tin he "Select an	ne to run ins id run" fund	stallers of the a ctionality.	applications, whic	h you want to c	apture. You can ru	n installers either	manually	or using	9
Select an	nd run								
Detected MSI In	stallation								
State	Copied	Name							
State Note that it is apturing and Once the inst. 2 I have finisi	Copied not recomm d switch to c allation is co hed the inst	Name mended to rep ustomizing the ompleted, sele callation	backage MSI to M em via a transforr ct "I have finished	ISI. If you have ir m in Editor. d the installation'	stantly detected a and click "Next".	nd copied MSI ins	stallation:	s, cancel	
State Note that it is capturing and Once the inst I have finisi ② 00:08 So	Copied not recomm d switch to c allation is co hed the inst canning Ser	Name mended 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'	stantly detected a and click "Next".	nd copied MSI ins	stallations	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	lation							×
	~ —							
	Prepare computer	Capturing method	Settings	Installation	Completion			
Completic	on							
Important: be i functionality. Ex	nformed that some of c cclude those unnecessar	aptured files and y resources using	registry, which d editor.	o not belong to ye	our application, m	ay affect	t package	e
 Customize p Stop now an 	project in editor nd save project							
✓ Copy all cap	tured files to the projec	t folder now						
Project summary								
Project folder	r:C:\Users\pace\Docum	ents\MSI Generat	or\Packages\PK0	5-170913-154800	(Go to)			
Files:	473 (909,7 MB)							
Registry:	451							
Services:	1							
Permissions: 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.			\sim	
Capture	installation		×	
	000			
	Prepare Capturing Settings Installation Completion computer method			
ompl	etion			
e followi	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			
nissing	C:\Users\pace\AppData\Local\lemp\bbb61adt-14ff-4926-95ef-16f3638de72f\snapshot2.xml			
ocked	C.;Users\pace\ppData\Local\MilCOSOT\Windows\USFClass.Gat.LOG I			
ocked	C:\Windows\Svstem32\confin\SQFTWARE.LQG1			
Retr				
	an airing and selected flat and the solution "City" (City") "City"	al al da		
y to rest ovina la	ore missing and unlock locked files and then click "ketry". Click "Finish" to proceed creating the project an cked and missing files to the project folder. Note that such files will be marked as "Excluded".	а ѕкір		
-79.1				

- 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-19	00430-144511.mgp						– 🗆 X
≡ MENU Packa	age Files Shortcuts	\Apps Reg	stry System resou	urces			
Files and folde	ers					Included: 124 files (197,6 N	(IB) V Collapse all
Name					Туре	Size	State
🖃 C:					Folder		Changed
🖃 📃 Program Fi	es (x86)				Folder		Changed
🗉 🔜 🔍 Moz	tilla Firefox				Folder		Added
🕀 🔛 Mozilla	Maintenance Service				Folder		Added
ProgramDa	ta				Folder		Changed
Microse	oft				Folder		Changed
Users					Folder		Changed
🛨 📄 pace					Folder		Changed
🕀 🛄 Public					Folder		Changed
Windows					Folder		Changed
	ipat				Folder		Changed
Prefetc	h.				Folder		Changed
 System 	32				Folder		Changed
🖃 🔛 cor	fig Import files				Folder		Changed
È	DE New subfolder				LOG2	202,0 KB	Changed
	SO Properties	E2			LOG1	16,0 MB	Changed
	SY: Move to folder	12			LOG1	1004,0 KB	Changed
🖃 🛄 Sle	eps liviove to folder				Folder		Changed
_	Us Exclude	Dei			ETL	320,0 KB	Changed
🖃 🔛 win	evt Add to exclusion filter	r 🕨			Folder		Changed
• •	Lo Delete	Shift+Del			Folder		Changed
	APPV virtualization le	vel 🕨			Folder		Changed
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.

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

≡ MENU Package	Files Shortcuts\App	s Registry	System resources		
Registry				Included: 113 values 🔽 Collaps	se all
Name			Туре	Value State	-
HKEY_CLASSES_ROOT	r		System hive	e	
HKEY_CURRENT_USE	2		System hive	2	
Software			Key	Changed	
🗈 🛄 Glasses			Key	Changed	
🖃 🔚 Microsoft			Key	Changed	
E AuthCook	ies		Key	Changed	
🗉 🔛 Live	Import registry		Key	Changed	
🖃 🔛 IdentityCF	Export registry		Key	Changed	
🗉 🔝 Imme	rsiv New key		Key	Changed	
🕀 🔛 Windows	New value		Key	Changed	
HKEY_LOCAL_MACHI	NE		System hive	e	
SOFTWARE	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			Key	Changed	
RegisteredAp	plic APPV virtualization lev	/el 🕨	Key	Changed	
WOW6432No	de		Key	Changed	
System			Key	Changed	
CurrentContro	biSet		Key	Changed	
Services			Key	Changed	
🗉 🔛 Mozil	aMaintenance		Key	Added	_
	dAccess		Key	Changed	
HKEY_USERS			System hiv	8	

- For managing THINAPP Settings such as entry points, primary data container, compression, file system isolation mode, sandbox location and the like, see section 4.8.9
- 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 p	oackage - PKG-190430-	144511.m	gp							- 🗆	×
	NU Package	Files	Shortcuts\Apps	Registry	System resources						
				MSI	MST	UWP	APPV	THINAPP			
Thin/	App Settings					ThinA	pp Packa	age Options			
Entry po	ints					Inventory	name				
	Name		Description			Firefox					
v	Firefox.exe		C:\Program Files (x86)\Mozill	a Firefox\firefox.e	xe	Gener	ate MSI pack	(age:			
	crashreporter.exe		C:\Program Files (x86)\Mozill	a Firefox\crashre	oorter.exe	Moz	illa Maintena	nce Service.msi			
	firefox (1).exe		C:\Program Files (x86)\Mozill	a Firefox\firefox.e	xe						
	maintenanceservice.exe	aller.exe	C:\Program Files (x86)\Mozili	a Firefox\mainter	anceservice installer.ex	Cilling	auon		Baarraa	Cata	
	minidump-analyzer.exe		C:\Program Files (x86)\Mozill	a Firefox\minidur	np-analyzer.exe	C.\User	s(pace)Docu	ments (MSFGenerator (Fackages (FKG-1	browse	60 10	
	pingsender.exe		C:\Program Files (x86)\Mozill	a Firefox\pingsen	der.exe	Build	Details				
	plugin-container.exe		C:\Program Files (x86)\Mozill	a Firefox\plugin-	ontainer.exe 🗸		4-0				
4					Þ		hitacturaSha	vtcut=1			
Primary	data container)otNotEromS	wetom=Win7			
Ose	one of the entry poi	nts					Jouveurionis	ystern - win/			
Fire	fox.exe				~	O Only p	prepare Thin/	App package structure			
O Use	separate .DAT file					• Prepa	re minApp p	ackage structure and build the package			
Fire	efox.dat					BUI	LD LOG			Open I	log
Compres	ssion					Type	Elapsed	Step			
Corr	npress virtual packag	e									
File syste	em isolation mode										
Full wri	ite access to non-sys	tem dire	ctories (Merged)		~	•					
Sandboy	location										
 User 	profile (%AppData%	6\Thinsta	II)								
O Cust	om location										
					Browse	Elapsed ti 00:00	me		\$	Build THIN	NAPP

• 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 p	oackage - PKG-1	90430-1	44511.m	gp								- C	- ×
	NU Pack	age	Files	Shortcuts\Apps	Registry	System resources	5						
					MSI	MST	UWP	APPV	THINAPP				
Thin/	App Setti	ngs					Thin	App Pack	age Options				
Entry po	ints						Invento	ry name					
	Name			Description			 Firefo 	x					
V	Firefox.exe			C:\Program Files (x86)\Mozill	la Firefox\firefox.e	xe		ante MCI par	kana				
	crashreporter.exe			C:\Program Files (x86)\Mozill	la Firefox\crashre	oorter.exe		erate ivisi pac	kaye.				
	firefox (1).exe			C:\Program Files (x86)\Mozill	la Firefox\firefox.e	xe	IVIC	ozilia iviaintena	ance Service.msi				
	maintenanceserv	ce.exe		C:\Program Files (x86)\Mozill	la Firefox\mainter	anceservice.exe	Project	location					
	maintenanceserv	ce_instal	ler.exe	C:\Program Files (x86)\Mozill	la Firefox\mainter	anceservice_installer.ex	C:\Us	ers\pace\Docu	uments\MSI Generator\P	ackages\PKG-1	Browse	Go	o to
	minidump-analy;	er.exe		C:\Program Files (x86)\Mozill	la Firefox\minidur	np-analyzer.exe							
	pingsender.exe			C:\Program Files (x86)\Mozill	la Firefox\pingsen	der.exe	Build	Details					
	plugin-container	exe		C:\Program Files (x86)\Mozill	la Firefox\plugin-	ontainer.exe	▼ □ Wo	w64=0					
4								rchitoctureSh	orteut=1				
Primary	data container							-D-thi-E-th	Sincer 14/2-7				
O Use	one of the ent	ry poin	ts					dDotivetFrom:	system=win/				
Firef	fox.exe						 O Only 	y prepare Thin	App package structure				
O Use :	separate .DAT	file					Prep	pare ThinApp (package structure and bi	uild the package			
Fire	efox dat												
							В	UILD LOG				Op	en log
Compres	ssion						Туре	Elapsed	Step				-
Corr	npress virtual p	ackage						00:00:12	SUCCESS: Firefox	exe, size=2560k			
File syste	em isolation mod	e						00:00:11	Firefox.exe:				
Full wri	ite access to n	on-svst	em dire	ctories (Meraed)				00:00:11	Enterprise Edition	licensed to demo			
		.,		. 3/				00:00:11	Copyright 1998-2	016, VMware, Inc. All	rights reserved.		
Sandbox	location	_						00:00:11	VMware ThinApp	Runtime Linker Versi	on 5.2.2-4435715, Bu	ilt Sep 26	6 2016
 User 	profile (%App	Data%	\ I hinsta	II)				00:00:08	Adding \VMware\	VMware ThinApp\TA	Surrogate64.exe 16	/424 byte	es (100 👻
O Cust	om location					Browse	Elapsed	l time			ல்	Build T	HINAPP
							00.00:1	-					


4.7 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 4.7.2 Manage product name, version, language and manufacturer of the application.
- For managing Package IDs see section 4.7.3 Manage product, upgrade and package codes.
- For managing Files and Folders see section 4.7.4 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 4.7.5 Review package shortcuts, add new or import existing shortcuts, manage their properties.
- For managing **Registry** see section 4.7.6 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 4.7.7 Manage custom and standard actions of the package, add new one to run scripts, EXE, etc.
- For managing Drivers see section 4.7.8 Review the package device drivers, modify and add new ones.
- For managing Features and Components see section 4.7.9 Review the feature-component structure and resources, linked with components. Add new features, components and manage their properties.
- For managing ARP Appearance see section 4.7.10 Control how the package will be displayed in the App list (Add & Remove Programs).
- For managing Upgrades see section 4.7.11 Manage the package upgrade settings to automatically upgrade previous MSI packages.
- For managing MSI Properties see section 4.7.12 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 4.7.13 Manage Summary Information of the opened MSI/MST.
- For managing MSI Tables see section 4.7.14 Add, import, drop MSI tables.
- For managing Merge Modules, described in section 4.7.15 Create new MSM or importing existing MSM to the package.



4.7.1 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.



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- 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 4 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.





4.7.2 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			



4.7.3 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			~
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			



4.7.4 Files and Folders

Choose a scenario that better suits your needs:

- Add System Folder, described in section 4.7.4.1 Add a system (standard) folder to the package.
- Add Subfolder, described in section 4.7.4.2 Add a subfolder (user-defined folder) to the package.
- Import Files and COM, described in section 4.7.4.3 Import files along with their, extracted on-the-fly, COM information.
- Change Compression Type, described in section 4.7.4.4 Change the compression type for all package files by rebuilding the whole package.
- Set Permissions, described in section 4.7.4.5 Set custom permissions for a file or folder.
- Remove Permissions, described in section 4.7.4.6 Remove the custom permissions from a file or folder.
- Move File, Folder, described in section 4.7.4.7 Move a file or a folder from one folder to another.
- Set INSTALLDIR, described in section 4.7.4.8 Set a subfolder (user-defined folder) of the package as the INSTALLDIR.
- Control Empty Folder Creation, described in section 4.7.4.9 Force the empty folder creation on install.
- Control File/Folder Removal, described in section 4.7.4.10
 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 4.7.4.11 Edit a name, destination location and content of the INI file, saved to the IniFile table.
- Edit File Properties, described in section 4.7.4.12 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 4.7.4.13 Edit a folder target and source names, identifier, and its parent folder.





4.7.4.1 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 Folder Directory Custom actions Image: TARGETDIR Folder Folder Directory Custom actions Image: TARGETDIR Folder Folder Directory Drivers Image: TARGETDIR Folder Folder Directory Package configuration ProgramMem/Folder Folder Folder Directory PACE Suite (ID: SHORTCUTLOCATION) Folder Image: Topologic Control Directory PACE Suite (ID: SHORTCUTLOCATION) Folder Image: Topologic Control Directory Properties PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Image: Topologic Control Directory Properties WindowsFolder Folder Image: Topologic Control Folder Image: Topologic Control Summary information WindowsFolder Folder Image: Topologic Control Image: Topologic Contro Image: Topologic Control Image: To	bider liesFolder Suite (ID: INSTALLDIR) MenuFolder Suite (ID: SHORTCUTLOCATION) Suite (ID: DOCUSHORTCUTLOCATION) Suite (ID: DOCUSHORTCUTLOCATION) Suite (ID: DEDITORSHORTCUTLOCATION) Solder	Type Folder Folder Folder Folder Folder Folder Folder	Size	Version	MSI table Directory Directory Directory Directory Directory
Shortcuts Folder Folder Directory Registry DesktopFolder Folder Folder Directory Custom actions ProgramFilesFolder Folder Folder Directory Drivers ProgramFilesFolder Folder Folder Directory Package configuration ProgramMenuFolder Folder Directory Package configuration PACE Suite (ID: SHORTCUTLOCATION) Folder Directory Package configuration PACE Suite (ID: SHORTCUTLOCATION) Folder Directory ARP appearance PACE Suite (ID: SHORTCUTLOCATION) Folder Directory Upgrades PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Properties WindowsFolder Folder Directory Summary information © security Folder Directory Media settings WindowsFolder Folder Directory	bider liesFolder Suite (ID: INSTALLDIR) AtenuFolder Suite (ID: SHORTCUTLOCATION) Suite (ID: SHORTCUTLOCATION) Suite (ID: DOCUSHORTCUTLOCATION) Suite (ID: DOCUSHORTCUTLOCATION) Solder	Folder Folder Folder Folder Folder Folder Folder			Directory Directory Directory Directory Directory
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Summary information Image: Construction Image: Construction Directory Image: Media settings Image: Construction Image: Construction Image: Construction		Folder			Directory
∃ Media settings	ty	Folder			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					- 0	×
MENU Package Summary	Package Designer Tables Editor					
🕶 🗁 Package resources	Files and folders	426 files (1	142,0 MB)	Collanse all	Show de	taile
Files and folders	Name	Туре	Size	Hide empty fold	lers	
Shortcuts	TARGETDIR	Folder		Hide removed i	tems	
🗞 Registry	DesktopFolder	Folder		Hide items with	out permiss	ions
> 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	
G Upgrades	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory	
Properties	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory	
Summary information	WindowsFolder	Folder			Directory	
Summary Information	security	Folder			Directory	
	Add • Remove					



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

MSI Editor - PACE_v5.0.0.msi					- 🗆	×
≡ MENU Package Summary	Package Designer Tables Editor					
🕶 🛅 Package resources	Files and folders	426 files (14	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	
🕶 🗁 Package configuration	ProgramMenuFolder	Folder			Directory	
Eestures and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory	
	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory	
G Upgrades	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory	
	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory	
	WindowsFolder	Folder			Directory	
Summary Information	🗷 🛄 security	Folder			Directory	
	Import files					
	Subfolder System folders					
	Add A 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.

ystern loiders	
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. •



4.7.4.2 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
Shortcuts Image TARGETDIR Folder Directory Registry DesktopFolder Folder Directory Custom actions Image Top Registry Folder Directory Provers Image Top Registry Folder Directory Package configuration Image Top Rec Suite (ID: SHORTCUTLOCATION) Folder Directory Package configuration ProgramMenuFolder Folder Directory Package configuration ProgramMenuFolder Folder Directory Package configuration ProgramMenuFolder Folder Directory Packe Suite (ID: SHORTCUTLOCATION) Folder Directory Pace Suite (ID: DOCUSHORTCUTLOCATION) Folder Directory Properties Image Top Control Folder Directory Summary information Image Top Security Folder Directory Media settings Media settings Folder Directory	Shortcuts Image: TakeETDIR Folder Directory Registry DesktopFolder Folder Directory Cutom actions Image: TakeETDIR Folder Directory Drivers Image: TakeETDIR Folder Directory Package configuration Image: TakeETDIR Folder Directory Package configuration Image: TakeETDIR Folder Directory Package configuration ProgramMenuFolder Folder Directory Package configuration Processite (ID: SHORTCUTLOCATION) Folder Directory Qupgrades PACE Suite (ID: DIORSHORTCUTLOCATION) Folder Directory Qupgrades PACE Suite (ID: DITORSHORTCUTLOCATION) Folder Directory Qupgrades PACE Suite (ID: DITORSHORTCUTLOCATION) Folder Directory Qupgrades WindowsFolder Folder Directory Quegr	Files and folders	Name	Туре	Size	Version	MSI table
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Custom actions Image: ProgramFilesFolder Folder Directory Package configuration ProgramMenuFolder Folder Directory Package configuration ProgramMenuFolder Folder Directory Package configuration PACE Suite (ID: SHORTCUTLOCATION) Folder Directory Package configuration PACE Suite (ID: SHORTCUTLOCATION) Folder Directory PACE Suite (ID: SHORTCUTLOCATION) Folder Directory PACE Suite (ID: InfopulseProgramMenuFolder) Folder Directory PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Properties Immary information Folder Directory Summary information Immary information Folder Directory Media settings Media settings Folder Directory	Custom actions Image: ProgramFilesFolder Folder Directory Package configuration Image: ProgramMenuFolder Folder Directory Package configuration Pack Suite (ID: SHORTCUTLOCATION) Folder Directory Package configuration Pack Suite (ID: DOCUSHORTCUTLOCATION) Folder Directory Upgrades Pack Suite (ID: DOCUSHORTCUTLOCATION) Folder Directory Properties Image: Summary information Folder Directory Summary information Image: Security Folder Directory Media settings Prodering Summary information Folder Directory	🗞 Registry	DesktopFolder	Folder			Directory
Privers @ PACE Suite (ID: INSTALLDIR) Folder Directory Package configuration @ ProgramMenuFolder Folder Directory Peatures and components PACE Suite (ID: SHORTCUTLOCATION) Folder Directory ARP appearance PACE Suite (ID: InfoulseProgramMenuFolder) Folder Directory Upgrades PACE Suite (ID: INFONCUTLOCATION) Folder Directory Properties PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Summary information @ Security Folder Directory Media settings Media settings Folder Directory	Privers @ PACE Suite (ID: INSTALLDIR) Folder Directory Package configuration @ ProgramMenuFolder Folder Directory Pact suite configuration PACE Suite (ID: Information) Folder Directory Part appearance PACE Suite (ID: Information) Folder Directory Upgrades PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Properties PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Summary information @ WindowsFolder Folder Directory Media settings Media settings Folder Directory	Custom actions	ProgramFilesFolder	Folder			Directory
Package configuration Image ProgramMenuFolder Folder Directory Pack suite (ID: SHORTCUTLOCATION) Folder Directory ARP appearance Image Pack Suite (ID: SHORTCUTLOCATION) Folder Directory Upgrades Image Pack Suite (ID: SHORTCUTLOCATION) Folder Directory Properties Image Pack Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Summary information Image Pack Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Media settings Image Pack Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory	Package configuration Image ProgramMenuFolder Folder Image Directory Pack super and components Image Pack Suite (ID: SHORTCUTLOCATION) Folder Image Directory Pack age configuration Pack Suite (ID: InfoguramMenuFolder) Folder Image Directory Upgrades Image Pack Suite (ID: DOCUSHORTCUTLOCATION) Folder Image Directory Properties Image Pack Suite (ID: EDITORSHORTCUTLOCATION) Folder Image Directory Summary information Image Pack Suite (ID: EDITORSHORTCUTLOCATION) Folder Image Directory Media settings Image Pack Suite (ID: EDITORSHORTCUTLOCATION) Folder Image Directory	🐓 Drivers	PACE Suite (ID: INSTALLDIR)	Folder			Directory
Features and components PACE Suite (ID: SHORTCUTLOCATION) Folder Directory ARP appearance PACE Suite (ID: InfopulseProgramMenuFolder) Folder Directory Upgrades PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Properties Im WindowsFolder Folder Directory Summary information Immedia settings Folder Directory	Peatures and components PACE Suite (ID: SHORTCUTLOCATION) Folder Directory ARP appearance PACE Suite (ID: ID: ODCUSHORTCUTLOCATION) Folder Directory Upgrades PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Properties WindowsFolder Folder Directory Summary information Imit is security Folder Directory Media settings Pace Suite (ID: SHORTCUTLOCATION) Folder Directory	Package configuration	ProgramMenuFolder	Folder			Directory
ARP appearance PACE Suite (ID: InfopulseProgramMenuFolder) Folder Directory Upgrades PACE Suite (ID: DOCUSHORTCUTLOCATION) Folder Directory Properties WindowsFolder Folder Directory Summary information @ Security Folder Directory	ARP appearance PACE Suite (ID: InfopulseProgramMenuFolder) Folder Directory Upgrades PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Properties WindowsFolder Folder Directory Summary information is security Folder Directory	Features and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
Image: Construction of the processing of the proc	Procession PACE Suite (ID: DOCUSHORTCUTLOCATION) Folder Directory Properties WindowsFolder Folder Directory Summary information B security Folder Directory	APP appearance	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
Opportions PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Properties WindowsFolder Folder Directory Summary information Iminipage Folder Directory	Opgingues PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory Properties WindowsFolder Folder Directory Summary information Image: Security Folder Directory Media settings Image: Security Folder Directory		PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
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
Aedia settings	Media settings	Summary information	🕀 🛄 security	Folder			Directory



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			
🕶 📴 Package resources	Files and folders	426 files (1-	42,0 MB) 🝸	Collance all Show details
Files and folders	Name	Туре	Size	☐ Hide empty folders
reference to the second	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
Properties	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	
💋 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: MSIEDITO)	Set as INSTALLDIR		Folder			Directory	
Dramatica	MSI Generator (ID: MSIGE	Move to folder		Folder			Directory	
Properties	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: DOCUSHORTCUTLOCATION)			Folder			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 Test			
	Add	Cancel	



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





4.7.4.3 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.

B MSI Editor - PACE_v5.0.0.msi					- 🗆 ×
■ 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	Turne	Size	Version	MSI table
Shortcuts		Type	5120	Version	Disartage
& Registry		Folder			Directory
Custom actions		Folder			Directory
	PACE Suite (ID: INSTALLDIR)	Folder			Directory
		Folder			Directory
Package configuration	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
Features and components	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
ARP appearance	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
🖸 Upgrades	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
Properties	WindowsFolder	Folder			Directory
Summary information	security	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 files	(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
Preatures and components	HISI Editor (ID: EDITORINS	Proportios E2		Folder			Directory
AKP appearance	🗈 📗 MSI Editor (ID: MSIEDITOR	Set as INSTALLDIR		Folder			Directory
Upgrades	🕀 🖿 MSI Generator (ID: MSIGE	Set as INSTALLDIK		Folder			Directory
Properties	🕀 🖿 MSI Generator (ID: MSIGE	Move to folder		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: 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.

Import files				_	_	×
	•					
	Files	Settings	Import COM			
Files to import						
Name	Size Targe	et path				
Add files						
Add folder						
Add A Remove					File	es: 0
			< Back	Next >	Cance	2

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

Select files to add	to MSI				×
$\leftarrow \rightarrow \land \uparrow$	> This	s PC > Documents > Sources	→ MyAppFiles1 v ੋ	Search MyAppFiles1	م
Organize 🔻 Ne	w folder	r			• 🔳 💡
🔹 Ouick access		Name	Date modified	Туре	Size
Deckton		🔊 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
		S 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 Mahurada		sysmon.ocx	2/21/2017 2:38 PM	ActiveX control	407 KB
rvetwork		📓 system.ini	2/21/2017 2:38 PM	Configuration sett	1 KB
🔩 Homegroup		dc.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	e" "pdfshell.dll" "Reader.helpcfg" "sysm 🗸	All files (*.*)	~
				<u>O</u> pen	Cancel



- 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, feature-component assignment settings and click Next. Find the detailed description of the INI handling settings in the table below.



lmport files				_		×
	~					
	Files	Settings	Import COM			
Settings						
Feature-component assignment						
 Create new features and comp 	onents					
O Create new components only						
Parent Teature					Browse	
O Use existing component						
					Browse	
NOTE All files will be imported INI handling Save valid INI files to the 'IniFile Save all INI files to the 'File' tab Save only valid content of all IN	d into one single folder, o e' table; invalid ones to th ple NI files to the 'IniFile' table	defined by Com he 'File' table (re e and then dup	conent. Original folder s commended) icate all INI files to the 'F	tructure will be lo	Browse st.	
NOTE All files will be imported INI handling Save valid INI files to the 'IniFile Save all INI files to the 'File' tab Save only valid content of all IN See invalid INI files	d into one single folder, c e' table; invalid ones to th ple NI files to the 'IniFile' table	defined by Com he 'File' table (re e and then dup	conent. Original folder s commended) icate all INI files to the 'F	tructure will be lo	Browse st.	
NOTE All files will be imported INI handling Save valid INI files to the 'IniFile Save all INI files to the 'File' tab Save only valid content of all IN See invalid INI files	d into one single folder, o e' table; invalid ones to th ple NI files to the 'IniFile' table	defined by Com he 'File' table (re e and then dup	conent. Original folder s commended) icate all INI files to the 'F	tructure will be lo	Browse st.	
NOTE All files will be imported INI handling Save valid INI files to the 'IniFile' Save all INI files to the 'File' tab Save only valid content of all IN See invalid INI files	d into one single folder, c e' table; invalid ones to th ele NI files to the 'IniFile' table	defined by Com he 'File' table (re e and then dup	conent. Original folder s commended) icate all INI files to the 'F	tructure will be lo	Browse st.	
NOTE All files will be imported INI handling Save valid INI files to the 'IniFile Save all INI files to the 'File' tab Save only valid content of all IN See invalid INI files	d into one single folder, o e' table; invalid ones to th ble NI files to the 'IniFile' table	defined by Com he 'File' table (re e and then dup	conent. Original folder s commended) icate all INI files to the 'F	tructure will be lo	Browse	

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.



• 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.

Import files				- □ >	×
		<u> </u>	-		
		Files Settings Im	port COM		
		2			
Extracted C	OM infor	mation			
File	Root	Кеу	Value name	Value	*
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A			
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A		C:\Users\pace\DOCUME~1\Sourc	
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A	ThreadingModel	Apartment	
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A		131473	
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A		0	
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A		DiskManagement.Control	
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A		C:\Users\pace\DOCUME~1\Sourc	
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A		{AEB84C80-95DC-11D0-B7FC-B6	
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A		1.0	
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A		DiskManagement.Control	
dmview.ocx	HKCR	CLSID\{AEB84C84-95DC-11D0-B7FC-B61140119C4A		C:\Users\pace\DOCUME~1\Sourc	
dmview.ocx	HKCR	CLSID\{AEB84C84-95DC-11D0-B7FC-B61140119C4A		DiskManagement.PropertyPage	
dmview.ocx	HKCR	DiskManagement.Control\CLSID		{AEB84C83-95DC-11D0-B7FC-B6	Ŧ
				•	
Import COM	information				
			< Back	Finish Cancel	

• 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.

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



Edit



4.7.4.4 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	-	- 🗆	\times
■ MENU Package Summary	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 with the selected compression type, select "Rebuild Windows Installer Database (MSI)" from the 'Save as' data's compression type. Compression type Internal CAB Compression installation source files to cabinet files, stored inside the MSI file. Incompatible with MST. Internal CAB Compression situalitation source files to cabinet files, stored outside the MSI file. Incompressed Store uncompressed installation source files outside the MSI file. Incompression super the existing structure of Media table (only for experts) Process installation source files according to records in Media table. Use this option if you need a mixture of different compression type. Cabinet options Cabinet options Maxed 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-2IP Max Max Max Max Max	kage. For 29. pes.	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 destination	on folder for MSI				×
← → • ↑ 🖺	> This PC > Documents > ~	Ū,	Search Documents		<i>م</i>
Organize 🔻 New	/ 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.

MSI Editor - PACE_v5.0.0.msi	- E	1 X
≡ MENU Package Summary	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. By default, only newly imported files will be processed when saving the package. By default, only newly imported files will be processed when saving the package. By default, only newly imported files will be processed when saving the package. By default, only newly imported files will be processed when saving the package. By default, only newly imported files will be processed (MSI)' from the 'Save as' dialog. Compression type Internal CAB Compression installation source files to cabinet files, stored outside the MSI file. Incompatible with MST. Patenal CAB Compression installation source files to cabinet files, stored outside the MSI file. Imported files structure Process installation source files to cabinets Compression situation source files to cabinets Compression situatition source fil	r ↓ 2 GB 2 GB

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

-	pace\Documents_Rebui	lt package					-	
File Home Share	View							~ 🕐
$\leftarrow \rightarrow$ \checkmark \uparrow \square \Rightarrow Th	is PC → Documents →	_Rebuilt package				ٽ ~	Search _Rebuilt package	Ą
4 Quick accord	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								E A



4.7.4.5 Set Permissions

Set custom permissions for a file or folder.

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

resources Files and folders 426 files (142.0 MB) Collapse all Show deta d folders Name Type Size Version MSI table its Image: TragetDIR Folder Directory Directory v DesktopFolder Folder Directory Directory a actions ProgramFilesFolder Folder Directory B PACE Suite (ID: INSTALLDIR) Folder Collapse all Directory s and components ProgramMenuFolder Folder Collapse all Directory es and components PACE Suite (ID: INSTALLDIR) Folder Collapse all Directory ies PACE Suite (ID: INSTALLDIR) Folder Collapse all Directory ies PACE Suite (ID: INSTALLDIR) Folder Collapse all Directory ies PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Collapse all Directory ies PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Collapse all Directory ies WindowsFolder EDI EDITORSHORTCUTLOCATION) Folder Collapse all Directory </th <th>Package Summary</th> <th>Package Designer Tables Editor</th> <th></th> <th></th> <th></th> <th></th>	Package Summary	Package Designer Tables Editor				
Mame Type Size Version MSI table uts TARGETDIR Folder Directory v DesktopFolder Folder Directory n actions ProgramFilesFolder Folder Directory e PACE Suite (ID: INSTALLDIR) Folder Image: Configuration Folder s and components ProgramMenuFolder Folder Image: Configuration Folder Image: Configuration s and components PACE Suite (ID: INSTALLDIR) Folder Image: Configuration Folder Image: Configuration s and components PACE Suite (ID: SHORTCUTLOCATION) Folder Image: Configuration Image	Package resources	Files and folders	426 files	(142,0 MB)	Collapse all	Show det
Image: state	Files and folders	Name	Туре	Size	Version	MSI table
y Image: DesktopFolder Folder Directory n actions Image: Program/FilesFolder Folder Directory Image: DesktopFolder Folder Directory Image: Desemitting S Image: DesktopFolde	Shortcuts	TARGETDIR	Folder			Directory
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Image: Back Suite (ID: INSTALLDIR) Folder Directory configuration Image: Back Suite (ID: INSTALLDIR) Folder Directory is and components Image: Back Suite (ID: SHORTCUTLOCATION) Folder Directory pearance Image: Back Suite (ID: SHORTCUTLOCATION) Folder Image: Back Suite (ID: SHORTCUTLOCATION) les Image: Back Suite (ID: SHORTCUTLOCATION) Folder Image: Back Suite (ID: BOTORSHORTCUTLOCATION) jes Image: Back Suite (ID: EDITORSHORTCUTLOCATION) Folder Image: Back Suite (ID: EDITORSHORTCUTLOCATION) jes Image: Back Suite (ID: EDITORSHORTCUTLOCATION) Folder Image: Back Suite (ID: EDITORSHORTCUTLOCATION) jes Image: Back Suite (ID: EDITORSHORTCUTLOCATION) Folder Image: Back Suite (ID: EDITORSHORTCUTLOCATION) jes Image: Back Suite (ID: EDITORSHORTCUTLOCATION) Folder Image: Back Suite (ID: EDITORSHORTCUTLOCATION) jes Image: Back Suite (ID: EDITORSHORTCUTLOCATION) Folder Image: Back Suite (ID: EDITORSHORTCUTLOCATION) jes Image: Back Suite (ID: EDITORSHORTCUTLOCATION) Folder Image: Back Suite (ID: EDITORSHORTCUTLOCATION) jes Image: Back Suite (ID: EDITORSHORTCUTLOCATION) Folder Image: Back Suite (ID: EDITORSHORTCUTLOCATION) jestings Image: Back Suite (ID: EDITORSHORTCUTLOCATION) Folder Image: Back	Custom actions	ProgramFilesFolder	Folder			Directory
configuration ProgramMenuFolder Folder Directory as and components PACE Suite (ID: SHORTCUTLOCATION) Folder Directory pearance PACE Suite (ID: InfopulseProgramMenuFolder) Folder Directory les PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory iss PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory iss WindowsFolder Folder Directory iss WindowsFolder Folder Directory istings Security Folder Directory	🐓 Drivers	PACE Suite (ID: INSTALLDIR)	Folder			Directory
is and components PACE Suite (ID: SHORTCUTLOCATION) Folder Directory pearance PACE Suite (ID: InfopulseProgramMenuFolder) Folder Directory les PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory iss Immediate (ID: EDITORSHORTCUTLOCATION) Folder Directory	Package configuration	ProgramMenuFolder	Folder			Directory
Image: Solid Configuration Image: PACE Suite (ID: InfopulseProgramMenuFolder) Folder Directory pearance Image: PACE Suite (ID: DOCUSHORTCUTLOCATION) Folder Directory les Image: PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory rigits Image: WindowsFolder Folder Directory ry information Image: Security Folder Directory	Eestures and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
periadice PACE Suite (ID: DOCUSHORTCUTLOCATION) Folder Directory les PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory ciss WindowsFolder Folder Directory ry information ID: security Folder Directory		PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
PACE Suite (ID: EDITORSHORTCUTLOCATION) Folder Directory ides Implementation Folder Directory irry information Implementation Folder Directory iettings Implementation Folder Directory		PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
Image: Constraint of the security Folder Directory Image: Constraint of the security Folder Directory	Deservation	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
ary information 🕢 Executity Folder Directory settings	Properties	WindowsFolder	Folder			Directory
settings	Summary information	😠 🛅 security	Folder			Directory
	Media settings					

• 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
Eastures and components	🗉 📗 Docu Generator	Import files		Folder			Directory
	MSI Editor (ID: EDITORINS	Properties F2	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 Del	/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		- 0	>
General	Operations Perr	nissions	
Enable permission changes			
Group/SID	Access rights	Allow	v Deny
	Full control		
	Modify		
	Read and Execute	2	
	List Folder Conte	nts 🗆	
	Read		
	Write		
	Special permissio	ns 🗌	
	Select special	permissions	
	Apply 'Allow' p and/or contair	permissions to objects ners within this containe	r only
Add Remove	Apply 'Deny' p and/or contair	ermissions to objects ers within this containe	r only
Enable inheritance			
Propagate inheritable permissions	to all subfolders 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	Operations	Permissions			
🗹 Enable permi	ssion changes					
Group/SID		Access rie	ghts		Allow	Deny
		Full con	trol			
		Modify				
		Read ar	nd Execute			
		List Fold	ler Contents			
		Read				
		Write				
		Special	permissions			
		Selec	t special permissions			
		Appl and/	y 'Allow' permissions or containers within t	to obje his cor	ects ntainer	only
Add	Remove	Appl and/	y 'Deny' permissions or containers within t	to obje his cor	ects ntainer	only
Enable inherit	tance					
Propagate inher	ritable permissions	to all subfolders a	nd files			~
		Save	Cancel			

• 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.

Properties		– 🗆 ×
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 permission	'S
	 Apply 'Allow' permission and/or containers within 	s to objects this container only
	Apply 'Deny' permission:	s to objects
Add Remove	and/or containers within	this container only
Enable inheritance		
Propagate inheritable permissions to al	l subfolders and files	~
Sav	/e Cancel	

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



4.7.4.6 Remove Permissions

Remove the custom permissions from a file or folder.

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

Package resources	Files and folders	427 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: DOCUSHORTCUTLOCATION)	Folder			Directory
 realures and components 	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
ARP appearance	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
Upgrades	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
Properties	WindowsFolder	Folder			Directory
Summary information	🕀 🛅 security	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		
 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 Files and folders Image: Interpret to the state of the sta	427 files (142.0 Type Si Folder Folder Fol	MB) Collaose all Show details ze Hide empty folders Hide removed items Hide items without permissions Clear filter Directory Directory
	Add • 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	I		_		×
General Op	perations	Permissions			
Enable permission changes					
Group/SID	Access rig	its		Allow	Deny
Built-in users (BU)	Full contr	ol			
	Modify			\checkmark	
	Read and	Execute		\checkmark	
	List Folde	r Contents		\checkmark	
	Read			\checkmark	
	Write			\checkmark	
	Special p	ermissions			
	Select	special permission	ns		
	□ Apply and/o	ns to obj n this cor	ects ntainer c	only	
Add Pamava	Apply 'Deny' permissions to objects and/or containers within this contain				only
Add Keniove					
Enable inheritance					
Propagata inheritable permissions to all s	ubfoldors on	d filos			~
Propagate initentable permissions to all s		a mes			•
Save	(ancel			



• Untick the Enable permission changes checkbox and click Save.

Properties					-		×
	General	Ope	erations	Permissions			
Enable permissio	n changes						
Group/SID			Access righ	its		Allow	Deny
			Full contr	ol			
			Modify				
			Read and	Execute			
			List Folde	r Contents			
			Read				
			Write				
			Special pe	ermissions			
			Select	special permission	5		
			Apply and/or	'Allow' permission: r containers within	s to obj this coi	ects ntainer (only
			Apply	'Deny' permissions	to obj	ects	
Add	Remove		and/or	r containers within	this co	ntainer	only
🗹 Enable inheritand	ie						
Propagate inheritat	ole permissions t	to all su	bfolders and	d files			~
	L	Save	C	ancel			

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



4.7.4.7 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	s (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
ADD sesses and components	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
ARP appearance	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
Upgrades	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
P 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.

Fackage resources	Files and folders		426 files	s (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	App-V Generator	New subfolder	Folder			Directory
Eestures and components	🗉 🔜 Docu Generator	Import files	Folder			Directory
APD appagements	MSI Editor (ID: EDITORINS	Properties E2	Folder			Directory
ARP appearance	MSI Editor (ID: MSIEDITOR	Set as INSTALLDIR	Folder			Directory
Upgrades	MSI Generator (ID: MSIGE	Mayo to folder	Folder			Directory
Properties	MSI Generator (ID: MSIGE	Nove to folder	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	Folder			Directory	
	PACE Suite (ID: InfopulseProgra	PACE Suite (ID: InfopulseProgramMenuFolder)				Directory
	PACE Suite (ID: DOCUSHORTCU	PACE Suite (ID: DOCUSHORTCUTLOCATION)				Directory
	PACE Suite (ID: EDITORSHORTC	UTLOCATION)	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		
IconDII		
Properties		-
Consulta.		
T Select Cancel		

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



4.7.4.8 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	9				- 🗆 ×
■ MENU Package Summary	Package Designer Tables Editor				
🕶 🗁 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	ProgramMenuFolder	Folder			Directory
 Package configuration 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
	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
 Package configuration 	App-V Generator	New subfolder		Folder			Directory
Eeatures and components	🗉 📗 Docu Generator	Import files		Folder			Directory
	MSI Editor (ID: EDITORINS	Properties	F2	Folder			Directory
ARP appearance Opgrades	MSI Editor (ID: MSIEDITOR	Set as INSTALLDIR		Folder			Directory
Properties	MSI Generator (ID: MSIGE	GE GE Move to folder Remove De		Folder			Directory
Properties	MSI Generator (ID: MSIGE		Del	Folder			Directory
Summary Information	Prerequisites			Folder			Directory
Media settings	EULA.rtf	Go to Directory table		RTF	119,8 KB		File
	Release notes.pdf			PDF	1,1 MB		File
	NU Package Summary Package Designer Tables Editor ackage resources Elies and folders 426 files (rd.2.0.MB) Collapse all Show de Registry Collapse all Show de Collapse all Show de Registry Custom actions Tables Culture Folder Protectory Drivers Deskopéroider Folder Directory ackage configuration Registry New subfolder Folder Directory Reparance Upgrades MSI Editor (ID: NISTALLDIR) New subfolder Folder Directory Properties R2 Folder Directory Directory Summary information MSI Editor (ID: MSIGNETORIA Remove Del Folder Directory Media settings MSI Editor (ID: MSIGNETORIA Remove Del Folder Directory Media settings MSI Editor (ID: MSIGNETORIA Remove Del Folder Directory Media settings MSI Editor (ID: MSIGNETORIA Remove Del Folder Directory Media settings MSI Editor (ID: MSIGNETORIA Remove Del Folder Directory Media settings MSI Editor (ID: MSIGNETORIA Role Directory Directory <td>File</td>	File					
		Directory					
	PACE Suite (ID: SHORICUTLOC	ATION)		Folder		Collapse all Show details Version MSI table Directory Directory Directory Directory	
	PACE Suite (ID: IntopulseProgr	amMenuFolder)		Folder			Directory
	PACE Suite (ID: DOCOSHORICO			Folder			Directory
	WindowsFolder	COTLOCATION		Folder			Directory
				Folder			Directory
	a _ secondy			Tolder			Directory
	Add • Remove						

•



4.7.4.9 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	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	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
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.

Fackage resources	Files and folders		426 file	s (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: INSTALL	.DIR)	Folder			Directory
Package configuration	App-V Generator		Folder			Directory
	🗉 📗 Docu Generator	New subfolder	Folder			Directory
ADD exercises	MSI Editor (ID: EDI	Import files	Folder			Directory
ARP 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	Romovo Dol	Folder			Directory
🛁 Media settings	EULA.rtf	Keniove Dei	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	eProgramMenuFolder)	Folder			Directory
	PACE Suite (ID: DOCUSI	HORTCUTLOCATION)	Folder			Directory
	PACE Suite (ID: EDITOR	SHORTCUTLOCATION)	Folder			Directory
	WindowsFolder		Folder			Directory
	security		Folder			Directory

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

© P	roperties					_	×
		General	Operations	Pe	rmissions		
	Create empty fold Component_	er					
							\sim
	NOTE This folder v Remove empty fol Component_	vill be created der	when the comp	onent is b	eing installe	d.	
							\sim
	Remove only wl	hen the comp	onent is being i	nstalled			
	Remove only will	hen the comp	onent is being u	ininstalled			
	Remove when t	he componer	nt is being install	ed and un	installed		
	Remove folder file	s					
	ID File name/ma	ask Mode Cor	nponent_				
	Add pow optry						
	Add new entry						
			Save	Cancel			



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

Properties				—	2
	General	Operations	Permissions		
Create empty fol Component_	lder				
ContextMenuA	ppv				~
NOTE This folder	r will be created	when the compone	ent is being installe	d.	
Remove empty f Component	older				
					~
 Remove only 	when the comp	onent is being insta	lled		
Remove only	when the comp	onent is being unin	stalled		
Remove where	the componer	nt is being installed a	and uninstalled		
Remove folder fi	les				
ID File name/r	mask Mode Cor	mponent_			
Add new entry					
Add new endy					

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





4.7.4.10 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.

B MSI Editor - PACE_v5.0.0.msi					– 🗆 🗙
■ 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	- - × 26 files (142,0 MB) ▼ Collapse all Show details Size Version MSI table Directory Directory Directory Directory		
reference Shortcuts	TARGETDIR	Folder			Directory
🗞 Registry	DesktopFolder	Folder			Directory
> Custom actions	ProgramFilesFolder	Folder			Directory
🖋 Drivers	MSI Editor - PACE_US&0.msi Package Designer Package Designer Package Designer Package Compared Package Configuration Package confi	Directory			
MS Létier - PACLy 50.0.mi Package Designer Tables Editor Image: and folders Files and folders 426 files (142.0 MB) Collapse all Show d Image: and folders Files and folders Tables Editor Tables Editor Show d Show d	Directory				
Eeatures and components	MSE Editor - PACE_yS.00.msi Package Designer Tables Editor Package resources Package configuration Package c				
	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			- X Show details MSI table Directory Directory
G Llogrades	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			
Proportion	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			
Properties	WindowsFolder	Folder			Directory
Summary Information	security	Folder			Directory
	Add • Remove		2.0 MB) V Collapse all Show details Size Version MSI table Directory		

• 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							- 🗆	×
■ MENU Package Summary	Package Designer Tables Edito	r						
🕶 🖿 Package resources	Files and folders			426 file	s (142,0 MB)	Collapse all	Show deta	ails
Files and folders	Name			Туре	Size	Version	MSI table	
reference to the second	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	
Features and components ARP appearance	MSI Editor (ID: EDITORINS	Properties Set as INSTALLDIR Move to folder Remove	E2	Folder			Directory	
	MSI Editor (ID: MSIEDITOR			Folder			Directory	
 Opgrades Dependenting 	H MSI Generator (ID: MSIGE			Folder			Directory	
Properties	H MSI Generator (ID: MSIGE		Dal	Folder			Directory	
Summary information	Prerequisites		Der	Folder			Directory	
📥 Media settings	EULA.rtf	Go to Directory table	2	RTF	119,8 KB		File	
	Release notes.pdf			PDF	1,1 MB		File	
	Release notes.xps			XPS	1,2 MB		File	
	ProgramMenuFolder			Folder			Directory	
Package resources Files and folders 426 files (142.0 M8) Image: State of Control of Contr		Directory						
	PACE Suite (ID: InfopulseProgra	mMenuFolder)		Folder			Directory	
	Will dependence Image: Second sec	Directory						
	PACE Suite (ID: EDITORSHORTC	UTLOCATION)		Folder			Directory	
	WindowsFolder			Folder			Directory	× etails
				Folder	Directory 119,8 KB File 1,1 MB File Directory 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 v	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 with the second	hen the comp	onent is being unin	stalled		
Remove when t	he componer	nt is being installed a	and uninstalled		
Remove folder files	s				
ID File name/ma	isk Mode Cor	mponent_			
Add new entry					
		Save	ancel		



• 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					—	×
Ge	eneral	Operations		Permissions		
Create empty folder						
Component_						0
NOTE This folder will b	be created v	when the comp	onent	is being installe	d.	
Remove empty folder				5		
Component_						
cmp0AD5B5B486F04	1078260816	28CD86768A				~
 Remove only when 	the compo	onent is being in	stalle	d		
 Remove only when 	the compo	onent is being u	ninsta	lled		
Remove when the c	component	is being installe	ed and	d uninstalled		
Remove folder files						
ID File name/mask	Mode Com	ponent_				
Add new entry						
		-	~			
		Save	Can	cel		

• 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.

-	-							1
Properties						-		\times
	General Op	eratio	ns	Permissi	ons			
Component_	er							
								\sim
NOTE This folder w	will be created when	the co	mponent	is being i	nstalled			
Remove empty fo	lder							
Component_								
cmp0AD5B5B486	5F0407826081628CD	86768	A					~
○ Remove only w	hen the component	is bein	g installed	d				
 Remove only w 	hen the component	is bein	g uninsta	lled				
Remove when the second seco	the component is bei	ing ins	talled and	l uninstalle	ed			
☑ Remove folder file	·S							
ID	File name/mask	Mode	Compone	ent_				
INSTALLDIR_3	*.log	3	cmp0AD5	B5B486F04	0782608	1628CD8	6768A	<u> </u>
								-
Add new entry								
	Save		Can	cel				
	i	i						

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

Wisi Editor - PACE_V5.0.0.msr			
MENU Package Summary	Package Designer	Tables Editor	
New MSI	Ctrl + N		
New MST		Complexity estima	tion
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.			
Generate package report		Complexity	level: Custo
Deploy to SCCM		Mediu	IM Servi
Active scripting			
Compare packages			
Edit	•		
Import and export	•		
Validation	•		
Help	•		
Quit	Alt + F4	Recalculate	results to file

4.7.4.11 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.

MSI Editor - PACE_v5.0.0.msi					- 🗆 ×
■ 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
Features and components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
ARP appearance	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
G Ungrades	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
Properties	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory
	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).

rackage resources	Files and folders		427 file	s (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: INS	TALLDIR)	Folder			Directory
Package configuration	App-V Generate	or	Folder			Directory
Eastures and components	🗉 📗 Docu Generator	r	Folder			Directory
Preatures and components	HISI Editor (ID:	EDITORINSTALLDIR)	Folder			Directory
AKP appearance	HISI Editor (ID:	MSIEDITORROOT)	Folder			Directory
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		Folder			Directory
	PACE Suite (ID: S	Maya ta faldar	Folder			Directory
	PACE Suite (ID: II	Description Del	Folder			Directory
	PACE Suite (ID: D	Remove Dei	Folder			Directory
	PACE Suite (ID: E	Go to IniFile table	Folder			Directory
	WindowsFolder		Folder			Directory
			Folder			Directory

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

General Permissions Image: Section Key Value IniFile Browse Content IniFile IniFile Section Key Value Action Compor Image: Section Key Value Value Action Compor Image: Section Key Value Section Key Value Section Key Value	Properties	-			_		>
MSI table: 'IniFile' Name config.ini Target (installation) folder ProgramFilesFolder\PACE Suite (ID: INSTALLDIR) Browse Content IniFile Section Key Value Action Comport			General	Permissions			
config.ini Target (installation) folder ProgramFilesFolder\PACE Suite (ID: INSTALLDIR) Browse Content IniFile Section Key Value Action Compor g8ed156d93a64 1 State ID 4444 0 INI_confi g48ecf55d9184c 2 DiscoveryMethod IPAddrORHostName INI_confi g4422 0 INI_confi f43cad6313f74c 2 State ID 83 0 INI_confi g4 	MSI ta	able: 'Ir	niFile'				
Target (installation) folder Browse ProgramFilesFolder\PACE Suite (ID: INSTALLDIR) Browse Content IniFile Section Key Value Action Compor Bed156d93a64 1 State ID 4444 0 INI_conf Bed156d93a64 1 State ID 4444 0 INI_conf g8ed156d93a64 1 State Name CBlankDialogResizeState 0 INI_conf g4 948ecf55d9184c 2 DiscoveryMethod IPAddrORHostName 0 INI_conf 4649bb7952ee 2 Discovery Single Device 0 INI_conf g6809d926c97a4 2 State ID 422 0 INI_conf g7a7e2652bb144 3 State ID 83 0 INI_conf ga47b8e2d9ee04 3 State ID 83 0 INI_conf	config.ini						
ProgramFilesFolder\PACE Suite (ID: INSTALLDIR) Browse Content Section Key Value Action Comport •	Target (installation) fol	der					
Content IniFile Section Key Value Action Compor Bed156d93a64 1 State ID 4444 0 INI_confi	ProgramFilesFolde	r\PACE Su	uite (ID: INSTALLDI	R)	В	rowse	
IniFile Section Key Value Action Compor • _8ed156d93a64 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 ID 83 0 INI_confi _a47b8e2d9ee04 3 State Name CFirewallInfoState 0 INI_confi	Contant		6				
Image: Sector Ray Nate: Decemption Nate: Decemption	IniFile	Section	Kev	Value	Action	Compo	
_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 _sa47b8e2d9ee04 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 _sa47b8e2d9ee04 3 State Name CFirewallInfoState 0 INI_confi		1	State Name	CBlankDialogResizeState	0	INI confi	1
_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	_4649bb7952ee	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		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	i.
• •	_a47b8e2d9ee04	3	State Name	CFirewallInfoState	0	INI_confi	
	4						
			Save	Cancel			
Save			Jave	Cancer			

For saving your package, select Save from the MENU.

 MSI Editor - PACE_v5.0.0.msi

· -		
E MENU Packa	age 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 I	MSI	
Save	Ctrl + S	Files:
Save as		Regis
Create MSP against	original MSI	
Generate package r	eport	Complexity level:
Deploy to SCCM		Medium
Active scripting		ODB ⁱ
Compare packages.		
Edit	*	
Import and export	*	
Validation	*	
Help	•	
Quit	Alt + F4	Recalculate Export results to file

.....

4.7.4.12 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.

Package resources	Files and folders	426 files	(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
Eastures and companyets	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
App and components	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
ARP 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 a file, properties of which you want to edit.
 MSI Editor - PACE_v5.0.msi

MSI Editor - PACE_v5.0.0.msi						- 🗆	×
	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	R	DLL	10,5 KB	5.0.0.46	File	
	Docu-Generator.Share		DLL	72,0 KB	2.7.0.1	File	
	DocumentFormat.Ope	Dal	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		DLL	282,0 KB	1.2.11.0	File	
	MarkupConverter.dll		DLL	71,5 KB	0.0.0.0	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		- 🗆 X
	General Permission	ns
MSI table: 'F	ile'	
Name		Identifier
Docu Generator.exe		Docu_Generator.exe
Target (installation) folder		
ProgramFilesFolder\PACE Su	iite\Docu Generator (ID: DOCI	UINSTALLDIR) Browse
Source (get from) path		
SourceDir\Program Files\PA	CE Suite\Docu Generator	
Component_		Sequence number
Docu_Generator.exe	~	395
Size (in bytes)	Version	Language
112128	5.0.0.46	0 ~
Retrieve file details (Size, Vers	ion, Language) by source path)
Attributes		
Read-Only	🗆 Vital	Override compression type
🗆 Hidden	Checksum	 Compress this file in CAB
□ System	Added by Patch	igodoldoldoldoldoldoldoldoldoldoldoldoldol
	Save Cance	I

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



4.7.4.13 Edit Folder Properties

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

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

Files and folders Name Shortcuts TARGETDI Registry Deskte Drivers Progra Package configuration P Progra ARP appearance PA Upgrades P A Porties Windo Summary information P Contents	R ppFolder mFilesFolder CE Suite (ID: INSTALLDIR) mMenuFolder CE Suite (ID: SHORTCUTLOCATION) CE Suite (ID: InfoulseProgramMenuFolder) CE Suite (ID: DOCUSHORTCUTLOCATION) CE Suite (ID: DOCUSHORTCUTLOCATION) CE Suite (ID: DOCUSHORTCUTLOCATION)	Type Folder Folder Folder Folder Folder Folder Folder	Size	Version	MSI table Directory Directory Directory Directory
Shortcuts Bregistry Q Custom actions Drivers Package configuration Features and components ARP appearance Q Upgrades Properties Summary information	R ppFolder mFilesFolder CE Suite (ID: INSTALLDIR) mMenuFolder CE Suite (ID: SHORTCUTLOCATION) CE Suite (ID: InfoulseProgramMenuFolder) CE Suite (ID: DOCUSHORTCUTLOCATION) CE Suite (ID: DOCUSHORTCUTLOCATION) CE Suite (ID: DOCUSHORTCUTLOCATION)	Folder Folder Folder Folder Folder Folder Folder			Directory Directory Directory Directory
	ppFolder mFliesFolder CE Suite (ID: INSTALLDIR) mMenuFolder CE Suite (ID: SHORTCUTLOCATION) CE Suite (ID: InfopulseProgramMenuFolder) CE Suite (ID: DOCUSHORTCUTLOCATION) CE Suite (ID: DOCUSHORTCUTLOCATION)	Folder Folder Folder Folder Folder Folder			Directory Directory Directory
Custom actions Drivers Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information Propertipe	mFilesFolder CE Suite (ID: INSTALLDIR) imMenuFolder CE Suite (ID: SHORTCUTLOCATION) CE Suite (ID: InfopulseProgramMenuFolder) CE Suite (ID: DOCUSHORTCUTLOCATION) CE Suite (ID: DOTUSHORTCUTLOCATION)	Folder Folder Folder Folder Folder			Directory Directory
Drivers Drivers Package configuration Peatures and components ARP appearance Upgrades Properties Summary information Properting	CE Suite (ID: INSTALLDIR) imMenuFolder CE Suite (ID: SHORTCUTLOCATION) CE Suite (ID: InfopulseProgramMenuFolder) CE Suite (ID: DOCUSHORTCUTLOCATION) CE Suite (ID: DOCUSHORTCUTLOCATION) CE Suite (ID: DOTUSHORTCUTLOCATION)	Folder Folder Folder Folder			Directory
Package configuration Image: Program Features and components Image: Paperance ARP appearance Image: Paperance Upgrades Image: Paperance Properties Image: Image: Paperance Summary information Image: Paperance	mMenuFolder CE Suite (ID: SHORTCUTLOCATION) CE Suite (ID: InfopulseProgramMenuFolder) CE Suite (ID: DOCUSHORTCUTLOCATION) CE Suite (ID: DOCUSHORTCUTLOCATION)	Folder Folder Folder			
Features and components ARP appearance Upgrades Properties Summary information Properties	CE Suite (ID: SHORTCUTLOCATION) CE Suite (ID: InfopulseProgramMenuFolder) CE Suite (ID: DOCUSHORTCUTLOCATION) CE Suite (ID: DOCUSHORTCUTLOCATION)	Folder Folder			Directory
ARP appearance PA Upgrades PA Properties Windo Summary information PA	CE Suite (ID: InfopulseProgramMenuFolder) CE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
Oupgrades PA Properties Windo Summary information Pa	CE Suite (ID: EDITORSHORTCUTLOCATION)				Directory
Properties Summary information	CE Suite (ID: EDITORSHORTCLITLOCATION)	Folder			Directory
Properties Windc Summary information	or sure (is representation of the section of the se	Folder			Directory
Summary information	wsFolder	Folder			Directory
	curity	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	Dal	Folder			Directory
Summary information	🕀 🖿 Prerequisites	Remove	Der	Folder			Directory
📥 Media settings	EULA.rtf	Go to Directory tab	e	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						



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

Properties				- 0	\times
	General	Operations	Permissions		
MSI t	able: 'Direc	tory'			
Name			Identifier		
PACE Suite			INSTALLDI	२	
Source name					
PACE Suite					
Set custom sou	rce name				
Parent folder					
ProgramFilesFold	er (ID: ProgramF	ilesFolder)		Browse	
Make this folder ro	ant .				
mance emp ronder re	DOL				
mate and rolder re	501				
	JOL				
		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
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	•	
Ouit	$\Delta I t + FA$	

4.7.5 Shortcuts

Choose a scenario that better suits your needs:

- Add Shortcut, described in section 4.7.5.1 Add a regular or an advertised shortcut that points to a file, folder or URL.
- Import Shortcuts, described in section 4.7.5.2 Import shortcuts from the file system to the package.
- Move Shortcut, described in section 4.7.5.3 Move a shortcut to another folder.
- Edit Shortcut Properties, described in section 4.7.5.4 Edit shortcut details such as icon, name, installation folder, shortcut type, arguments, description and the like.

4.7.5.1 Add Shortcut

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

• Go to the Package Designer -> Shortcuts tab.

	Shortcuts			8 shortcuts 💙 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	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
	ProgramFilesFolder		Folder		Directory
	ProgramMenuFolder		Folder		Directory
ARP appearance	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	0	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 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				- 🗆 ×
≡ MENU Package Summary	Package Designer Tables Editor			
🕶 🖿 Package resources	Shortcuts		8 shortcuts 💙 Collapse all	Show details
Files and folders	Name	Туре	Target	MSI table
Shortcuts		Folder		Directory
🗞 Registry	DesktopFolder	Folder		Directory
> Custom actions	Docu Gener Import shortcuts	Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
💅 Drivers	MSI Editor.Ir 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
Eastures and company	ProgramFilesFol	Folder		Directory
	ProgramMenuF Properties F2	Folder		Directory
	PACE Suite Move to folder	Folder		Directory
Upgrades	Docu Ge Remove Del	Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
Properties	PACE Suite Go to Directory table	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
	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.)

Add shortcut	_	-		×
• • • • • • • • • • • • • • • • • • • •				
Type Target Appearance				
Target type				
 File from the package An advertised or regular (non-advertised) shortcut that points to a file of the package. 				
 File on the system A regular (non-advertised) shortcut that points to a file on the target system. 				
 Folder from the package A regular (non-advertised) shortcut that points to a folder of the package. 				
 Folder on the system A regular (non-advertised) shortcut that points to a folder on the target system. 				
O URL An internet shortcut that opens the specified URL.				
Next >)		Cancel	



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

Add shortcut					— 🗆	×
	~					
	Туре	Target	Appearance			
Target						
Shortcut target						
				0	Browse	
Arguments						
Start in (WkDir)						
Folder						~
				0	Browse	
Shortcut type						
Advertised shortcut Regular (non-advertised) shortcut						
,						
					-	
			K Back	Next >	Cance	1



• 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		
▼ Solart Cancol		
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.

Add shortcut						×
		_				
	Туре	Target	Appearance			
Target						
Gestauteset						
ProgramEilesEolder\PACE Suite\Re	lesse notes ndf (ID:	release notes no	lf)		Browsa	
	lease notes.pur (ib.	release_notes.pe			biowse	1
Arguments						
Start in (WkDir)						
Folder						~
					_	
ProgramFilesFolder\PACE Suite (ID): INSTALLDIR)				Browse	
Shortcut type						
 Advertised shortcut Regular (non-advertised) shortcut 	ıt					
					-	
			< Back	Next >	Cance	



• 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.

Add shortcut						×
						
	Туре	Target	Appearance			
Appearance						
○ ~						
Shortcut name						
End User License Agreement						
Description						
End User License Agreement RTF doo	cument					
Hot key						
Ctrl + Shift + E						
Run						
Normal window						~
			/ Pack	Finish	Const	-1
			C DACK	FINISN	Cance	21

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



4.7.5.2 Import Shortcuts

Import shortcuts from the file system to the package.

• Go to the Package Designer -> Shortcuts tab.

-	Shortcuts			8 shortcuts U Collapse all	Show de
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
	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
			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.

MSI Editor - PACE_v5.0.0.msi						– 🗆 🗙
MENU Package Summary	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.Ir	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
Eestures and components	ProgramFilesFol	Properties E2		Folder		Directory
	🖃 🔛 ProgramMenuFe	Maus ta faldas		Folder		Directory
	🖃 🚞 PACE Suite	Nove to folder		Folder		Directory
Dramastica	📵 Docu Ge	Remove Dei		Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
Properties	PACE Suite	Go to Directory table		Folder		Directory
Summary information	MSI Edito	.Ink		Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor\	Shortcut
🖂 Media settings	PACE Suite (IE): InfopulseProgramMenuFolder)		Folder		Directory
	💭 Release N	otes.Ink		Advertised shortcut	PaceManual (ProgramFilesFolder\PACE Suite\Release)	Shortcut
	💭 User Man	ual.Ink	0	Regular shortcut	[MANUALURL]	Shortcut
	PACE Suite (II	SHORTCUTLOCATION)		Folder		Directory
	MSI Gene	rator.lnk		Advertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut
	WindowsFolder			Folder		Directory
	Add 🔺 Rem	ove				



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



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





4.7.5.3 Move Shortcut

Move a shortcut to another folder.

• Go to the Package Designer -> Shortcuts tab.

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	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
Eestures and components	ProgramFilesFolder		Folder		Directory
	ProgramMenuFolder		Folder		Directory
	PACE Suite (ID: DOCUSHORTCUTLOCATION)		Folder		Directory
Opgrades	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 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				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
	ProgramFilesFolder				Folder		Directory
Peatures and components	ProgramMenuFolder				Folder		Directory
ARP appearance	PACE Suite (ID: DOCUSH	IORTCUTLOCATION)			Folder		Directory
Upgrades	Docu Generator.Ink				Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
P Properties	PACE Suite (ID: EDITORS	HORTCUTLOCATION)			Folder		Directory
Summary information	MSI Editor.Ink				Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor)	Shortcut
📇 Media settings	PACE Suite (ID: InfopulseProgramMenuFolder)			Folder		Directory	
	党 Release Notes.Ink				Advertised shortcut	PaceManual (ProgramFilesFolder\PACE Suite\Release	Shortcut
	User Manual.Ink	Import shortcuts		0	Regular shortcut	[MANUALURL]	Shortcut
	PACE Suite (ID: SHORTO	New shortcut			Folder		Directory
	MSI Generator.Ink	New subfolder			Advertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut
	WindowsFolder	Properties	F2		Folder		Directory
		Move to folder					
		Remove	Del				
		Go to Shortcut table					
		GO TO SHOTTCUT LADI	-				



• Select a new destination folder from the 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	
MSI Editor	
ActiveScripting	
Scripts	
Docs	
DocTemplates	
en-US	
ExternalTools	
PatchCreation	
PatchTool	
QualityAssistant	
Projects	
checklists	
SccmPublishScript	
IconDII	-
Descrite	
T Select Cancel	

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





4.7.5.4 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.

-	Shortcuts			8 shortcuts 🔍 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	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
Eestures and components	ProgramFilesFolder ProgramMenuFolder		Folder		Directory
			Folder		Directory
	PACE Suite (ID: DOCUSHORTCUTLOCATION)		Folder		Directory
Opgrades	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	0	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_v5.0.msi

	Package Designer T	ables 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.In	nk		0	Advertised shortcut	DocuGenerator (ProgramFiles	Folder\PACE Suite\Docu	Shortcut
🗩 Drivers	MSI Editor.Ink				Advertised shortcut	MsiEditor (ProgramFilesFolde	r\PACE Suite\MSI Editor\	Shortcut
Package configuration	MSI Generator.	Import shortcuts			Advertised shortcut	MsiGenerator (ProgramFilesF	older\PACE Suite\MSI Ge	Shortcut
Eestures and components	ProgramFilesFolder	New shortcut			Folder			Directory
	🖃 📄 ProgramMenuFolde	New subfolder			Folder			Directory
	🖃 🔛 PACE Suite (ID:	Properties	F2		Folder			Directory
Opgrades	📵 Docu Gener	Move to folder	12		Advertised shortcut	DocuGenerator (ProgramFiles	sFolder\PACE Suite\Docu	Shortcut
Properties	PACE Suite (ID:	Nove to loider	Dal		Folder			Directory
Summary information	MSI Editor.I	Kentove	Dei		Advertised shortcut	MsiEditor (ProgramFilesFolde	r\PACE Suite\MSI Editor\	Shortcut
📥 Media settings	PACE Suite (ID:	Go to Shortcut table			Folder			Directory
	C Release Note	s.ink			Advertised shortcut	PaceManual (ProgramFilesFol	Ider\PACE Suite\Release I	Shortcut
	📜 User Manual.	nk			Regular shortcut	[MANUALURL]		Shortcut
	PACE Suite (ID: SI	HORTCUTLOCATION)			Folder			Directory
	MSI Generato	r.ink			Advertised shortcut	MsiGenerator (ProgramFilesF	older\PACE Suite\MSI Ge	Shortcut
	WindowsFolder				Folder			Directory
	Add 🔺 Remov	a						



 \Box ×

• 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					



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



Save

Edit

Help Quit





4.7.6 Registry

Choose a scenario that better suits your needs:

- Add Registry Key, described in section 4.7.6.1 Add a new registry key or sub-key manually.
- Add Registry Value, described in section 4.7.6.2 Add a new registry value manually.
- Add ActiveSetup, described in section 4.7.6.2.1 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 4.7.6.3 Add the RemoveRegistry to force a registry value or key removal on install.
- Import Registry, described in section 4.7.6.4 Import registry from the REG file.
- Export Registry, described in section 4.7.6.5 Export the selected registry to the REG file.
- Set Permissions, described in section 4.7.6.6 Set custom permissions for the registry key.
- Remove Permissions, described in section 4.7.6.7 Locate registry key with custom permissions and remove the unnecessary permissions.
- Move Value, Key, described in section 4.7.6.8 Move a registry value or a key from one parent key to another one.
- Edit Registry Key, described in section 4.7.6.9 Modify details and options of the selected registry key.
- Edit Registry Value, described in section 4.7.6.10 Modify details of the selected registry value.
- Edit Value/Key Removal, described in section 4.7.6.11 Modify details of the selected value/key removal item (RemoveRegistry) to secure a value or a key removal during the package installation.





4.7.6.1 Add Registry Key

Add a new registry key or sub-key manually.

• Go to the Package Designer -> Registry tab.

2	Registry		53 values V Colla	apse 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		
ARF appearance	\star 🔜 .wsi	Key		
Opgrades		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 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 Features and components ARP appearance Upgrades Properties 	🕀 🛄 .mgp		Key		
	🗉 🛄 .msm		Key		
	🕀 🛄 .mst		Key		
	🗉 🛄 .wsi		Key		
	🕀 🔚 AppV		Key		
	Infopulse.DscnFile	Infopulse.DscnFile	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.

,		:
Кеу		
Test		
Component_		
cmp8BEC1A678B	SEF51F3C3615ABCC4F9C7D4	~
Parent key		
2		
Infopulse.DscnFile	e	
Infopulse.DscnFile	e	
Infopulse.DscnFile Root HKEY_CLASSES_F	le ROOT (0)	
Infopulse.DscnFile Root HKEY_CLASSES_F	ROOT (0)	
Infopulse.DscnFile Root HKEY_CLASSES_F	ROOT (0) Add Cancel	

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

MENU Package Summary	Package Designer	Tables Editor	
ew MSI	Ctrl + N		
New MST			Complexity estimation
)pen	Ctrl + O		
)pen recent	•		
pply MST to MSI			
lemove MST from MSI			
ave	Ctrl + S		
ave as			
Create MSP against original MSI			
Generate package report			Complexity leve
eploy to SCCM			Medium
ctive scripting			
ompare packages			
dit	•		
mport and export	•		
/alidation	•		
Help	•		
Quit	Alt + F4		



4.7.6.2 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		Root: 0)		System hive		
> Custom actions	.appv			Key		
🗩 Drivers	🕀 🚞 .dscn			Key		
🕶 🗁 Package configuration	8 🖿 .mgp 8 🖿 .msm 8 🖿 .mst			Key		
Features and components				Key		
				Key		
C Upgrader	🗉 🔜 .wsi	🗉 🔜 .wsi				
	AppV			Key		
Properties	Infopulse.DscnFile	lana at an ainte a		Key		
Summary Information	Defaulticon	Import registry		Key		
🖂 Media settings	🕀 🔛 shell	Export registry		Key		
	🗞 (Default)	New key		String value	Docu Generator scenario	DOCUContextMent
	💑 (Default)	New value		String value	Docu Generator scenario	DOCUFileAssotiatic
	Msi.MergeModule	New value/key removal		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.

N			_	
9 Properties		_		>
$\mathbf{\Theta}$				
MSI table: 'Registry'				
Wish table. Registry				
Value processing method				U
1. Set both hame and value				·
Name	Identifier			
Test	reg_08a3c81a			
Value				
Parsed value				
Type				
String value (REG_SZ)				·
Value				
Test				
O Raw MSI value				
Test				
Kev				
Infopulse.DscnFile		E	Browse	
Post				
				U
TIKET_CLASSES_ROOT (0)				
Component_				
cmp8BEC1A678BEF51F3C3615ABCC4F9C7D4				~
Save C	Iancel			



For saving your package, select Save from the MENU.



4.7.6.2.1 Add 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 Summa	v 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		Component	ProgramFilesFolder\PACE Suite\Docu Generator\Docu Generator
🐓 Drivers	🗉 🔛 Docu_Generator.Hook.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Docu-Genera
Package configuration		Component	ProgramFilesFolder\PACE Suite\Docu Generator\Docu-Genera
 Features and components ARP appearance Upgrades 		Component	ProgramFilesFolder\PACE Suite\Docu Generator\en-US\Docu
	Docu_Generator.resourcesDE.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\de-DE\Docu
	🗉 🔛 Docu_Generator.SharedResources.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Docu-Genera
	🗉 🔛 Docu_PACE.Common.Adapters.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Commo
Properties		Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Commo
Summary information	🗉 🔛 Docu_PACE.Common.Logging.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Commo
🔜 Media settings	🗉 🔛 Docu_PACE.Common.UI.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Commo
	🗉 🔛 Docu_PACE.Common.UIStyles.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Commo
	🗉 🔛 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\HtmlAgilityPa
		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.dli	Component	ProgramFilesFolder\PACE Suite\Docu Generator\log4net.dll (I
	🗉 🔛 MarkupConverter.dli	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).

BI 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 Shortcuts	🖃 🔚 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
	🗉 🔛 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.di	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.Ul.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Commc
	🗉 🔛 Docu_PACE.Cor	nmon.UIStyles.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\PACE.Commc
	🗉 🔛 DOCUContextN	/enu	Component (Conditions)	TARGETDIR (ID: TARGETDIR)
	🗉 🔛 DOCUFileAssot	iation	Component (Conditions)	TARGETDIR (ID: TARGETDIR)
	🗉 🔛 DocumentForm	at.OpenXml.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\DocumentFol
	🗉 🔛 DOCUSystem.W	/indows.Interactivity.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\System.Wind
	🗉 🔛 Hardcodet.Wpf	.TaskbarNotification.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Hardcodet.W
	🗉 🔛 HtmlAgilityPack	cdll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\HtmlAgilityPa
	ICSharpCode.SI	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 (li
	🗉 🔛 MarkupConver	ter.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\MarkupConv
	🗉 🔛 Microsoft.Deple	oyment.WindowsInstaller.dll	Component	ProgramFilesFolder\PACE Suite\Docu Generator\Microsoft.Dej
	Add 🔺 Re	emove		

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

Properties		×
General Attributes Relationshi	ips	
MSI table: 'Component'		
Name		_
ActiveSetup		
Component ID (GUID)		
{A67C8455-D55F-42F3-A292-FEE55933C234}	New	
Conditions		
Folder and KeyPath		
TARGETDIR (ID: TARGETDIR)	Browse	
NOTE Changing this folder leads to changing the Target folder for a	all the component files.	
Folder ('Files destination folder' is used as the KeyPath)	~	'
KeyPath		
TARGETDIR (ID: TARGETDIR)	Browse	
Save Cancel		



Go to the Package Designer -> Registry tab.
 MSI Editor - PACE v5.00.msi

Wisi Editor - PACE_V5.0.0.msr				
	Package Designer Tables Editor			
🕶 🗁 Package resources	Registry		53 values 💙 Co	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		
- E Package configuration	🛞 🔚 .mgp	Key		
Eastures and components	🗉 🔚 .msm	Key		
	🕢 🔝 🖿 .mst	Key		
	🕢 🔝 .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		
	Add Remove			

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

 MSI Editor - PACE_v5.00.msi

						- 1 ~
Package De	esigner Tables Editor					
egistry				53 v	alues 💙 Collapse a	II Show details
lame			Туре	Value		Component_
HKEY_CU	I/LM - Defined by installation type (Root:	-1)	System hive			
HKEY_CL	ASSES_ROOT (Root: 0)		System hive			
HKEY_CU	RRENT_USER (Root: 1)		System hive			
HKEY_LO	CAL MACHINE (Root: 2)		System hive			
🖃 🔜 SOF	Import registry		Key			
÷	Export registry		Key			
• • • • • • • • • • • • • • • • • • •	New key		Key			
HKEY_U	New value		System hive			
	New value/key removal					
	Descention E2					
	Properties F2					
	Nove to					
	Kemove Dei					
	Go to Registry table					
	Go to Component table					
Add 🔺	Kemove					
	Package De egistry HKEY_CU HKEY_CU HKEY_CU Sof HKEY_U HKEY_U HKEY_U	Package Designer Tables Editor egistry Iame (Root: 0) HKEY_CU/LM - Defined by installation type (Root: 0) HKEY_CUASSES_ROOT (Root: 0) HKEY_CUARRENT_USER (Root: 1) HKEY_COAL MACHINE (Root: 2) Sof HKEY_COAL MACHINE (Root: 2) Key tor registry New key HKEY_CUARRENT_USER (Root: 1) Key tor registry New value New value New value New value Go to Registry table Go to Component table	New value New value New value New value New value New value New to Remove Bo to Component table Del Go to Component table So to Component table	New value Key New value/key removal Properties Properties F2 Move to Remove Be to Component table System hive	Package Designer Tables Editor egistry 53 v tame Type Value HKEY_CU/LM. Defined by installation type (Root: -1) System hive Image: Cu/LM CASSES ROOT (Root: 0) HKEY_CURRENT_USER (Root: 1) System hive System hive HKEY_CURRENT_USER (Root: 2) System hive Image: Cu/LM CALLINE (Root: 2) HKEY_CURRENT_USER (Root: 1) System hive Image: Cu/LM CALLINE (Root: 2) HKEY_CURRENT_USER (Root: 1) System hive Image: Cu/LM CALLINE (Root: 2) HKEY_CURRENT_USER (Root: 1) System hive Image: Cu/LM CALLINE (Root: 2) HKEY_CURRENT_USER (Root: 2) System hive Image: Cu/LM CALLINE (Root: 2) HKEY_UCAL_MACHINE (Root: 2) System hive Image: Cu/LM CALLINE (Root: 2) HKEY_UCAL_MACHINE (Root: 2) System hive Image: Cu/LM CALLINE (Root: 2) HKEY_UCAL_MACHINE (Root: 2) System hive Image: Cu/LM CALLINE (Root: 2) HKEY_UCAL_MACHINE (Root: 2) System hive Image: Cu/LM CALLINE (Root: 2) HKEY_UCAL_MACHINE (Root: 2) New value New value New value/key removal Properties F2 Move to So to Component table Image: Cu/LM CALINE (Root:	Package Designer Tables Editor S3 values C Collapse a Import negistry HKEY_LUCAL.MACHINE (Root: 1) System hive HKEY_LUCAL.MACHINE (Root: 2) System hive New value Key New value New value New value/key removal Properties Properties F2 Move to Remove Go to Component table So to Component table

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



Кеу		
Software\Micro	soft\Active Setup\Installed Components\[Prod	uctCode]
Component_		
ActiveSetup		
NOTE For confor value will be add	rming MSI requirements, the 'Forced key creat led to the specified key.	ion on inst
NOTE For confor value will be add Parent key	rming MSI requirements, the 'Forced key creat led to the specified key.	ion on inst
NOTE For confor value will be add	rming MSI requirements, the 'Forced key creat led to the specified key.	ion on inst
NOTE For confor value will be add Parent key	rming MSI requirements, the 'Forced key creat led to the specified key.	ion on inst
NOTE For confor value will be add Parent key Root HKEY_LOCAL_N	rming MSI requirements, the 'Forced key creat led to the specified key. //ACHINE (2)	ion on inst
NOTE For confor value will be add Parent key Root HKEY_LOCAL_N	rming MSI requirements, the 'Forced key creat led to the specified key. MACHINE (2)	ion on inst

• 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 Compon	ents	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



nponent_field. Afterwards, click Save.		
Properties	- 0	×
INSI TADIE: REGISTRY		
1. Set both name and value		~
ame	Identifier	
StubPath	reg_1e430083	
alue		-
) Parsed value Type		
String value (REG_SZ)		~
Value		
msiexec /fups [ProductCode] /qb		
D Raw MSI value		
msiexec /fups [ProductCode] /qb		
ey		
Software\Microsoft\Active Setup\Installed Components\	[ProductCode] Browse	
oot		
HKEY_LOCAL_MACHINE (2)		~
omponent_		
ActiveSetup		~
Save Car	ncel	

For saving your package, select Save from the MENU.

 MSI Editor - PACE_v5.0.0.msi

IENU Package Summary	Package Designer	Tables Editor	
MSI	Ctrl + N		
w MST			Complexity estimation
n	Ctrl + O		
recent	•		
VIST to MSI			
e MST from MSI			
	Ctrl + S		
MSP against original MSI			
e package report			Complexity leve
to SCCM			Medium
scripting			
re packages			
	•		
ort and export	•		
tion	•		
1	•		
	Alt + F4		

4.7.6.3 Add Value/Key Removal

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

• Go to the Package Designer -> Registry tab.

ED EN LIGHT	5 7		55 Values 4	
Files and folders	Name	Туре	Value	Component_
C 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		
Eeatures and components	🕀 🛅 .msm	Key		
ARP appearance	🕢 🖿 imst	Key		
	🕢 🖿 .wsi	Key		
Deservation	🕀 🔚 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 ■ ■ SOFTWARE ■ ■	Key		
	HKEY_USERS (Root: 3)	System hive		

• 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 💙 Collap	ose all Show details
Files and folders	Name			Type	Value	Component
Shortcuts	HKEY CIVIM Defined	by installation type (Poot: 1)		Sustam bive		component_
🗞 Registry		Poot: 0)		System hive		
Custom actions		(00: 0)		System nive		
Drivers	e dscn			Key		
	map			Key		
Package configuration	.msm			Key		
Features and components	.mst			Kev		
📮 ARP appearance	.wsi			Kev		
🖸 Upgrades	AppV			Kev		
Properties	🖃 📕 Infopulse.DscnFile			Kev		
Summary information	Defaulticon	Import registry		Key		
📥 Media settings	🕀 🔚 shell	Export registry		Key		
	🛞 (Default)	New Intern	_	String value	Docu Generator scenario	DOCUContextMenu
	🛞 (Default)	New key		String value	Docu Generator scenario	DOCUFileAssotiatic
	Hi.MergeModule	New value		Key		
	🕀 📗 Msi.Package	New value/key removal		Key		
	🗉 🛅 Msi.Patch	Properties F2	2	Key		
	🗈 📗 Msi.Transform	Move to		Key		
	🗉 🚞 MSIGeneratorProje	Remove D	el	Key		
	🗉 🔚 WisePackageStudic		-	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**.





4.7.6.4 Import Registry

Import registry from the REG file.

• Go to the Package Designer -> Registry tab.

	Registry		53 values V 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		
Eastures and components	🗈 🔚 .msm	Key		
	🗉 🔚 .mst	Key		
ARF 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 ■ ■ SOFTWARE ■ ■	Key		
	HKEY_USERS (Root: 3)	System hive		

• Select Add -> Import registry from the toolbox.

■ MENU Package Summary	Package Designer Tables Editor					
🔹 🗁 Package resources	Registry		53 values 💙 Collapse a	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				
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				
	Kev	System hive				
	Value					
	Value/kev removal					
	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 ✓ [™] Search REG Q == -Organize 🔻 New folder ? Date modified Name Size Туре 📌 Quick access RegistrySettigns2.reg 2/21/2017 3:32 PM **Registration Entries** 2 KB 📃 Desktop ÷ **Registration Entries** 鹶 RegistrySettings1.reg 2/21/2017 3:32 PM 5 KB 🕹 Downloads **Registration Entries** 鹶 RegistrySettings3.reg 2/21/2017 3:32 PM 4 KB 🗄 Documents Pictures 🐔 OneDrive 💻 This PC 鹶 Network •4 Homegroup File name: "RegistrySettigns2.reg" "RegistrySettings1.reg" "RegistrySettings3.reg" Registry file (.reg) (*.reg) \sim \sim <u>O</u>pen Cancel
- Review registry entries, parsed from the selected REG files, remove the unnecessary ones, and click Next.

Import registry			— Ц	
•				
Regist	trv Settings			
egistry 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	
IKEY_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	
(Þ
Add Remove			Entries:	4
		N		



• At the Settings step, you can select the feature-component assignment settings and handling options for registry values in square brackets. Such values could be processed (1) as MSI properties or (2) as ordinary registry values. Below, in the tables, you will find the detailed description of handling options for registry values in square brackets. Click Finish to complete the import.

				-	- 🗆	\times
						
	Registry	Settings				
Settings						
Feature-component assignment						
Create new features and component	s					
OCreate new components only Parent feature						
					Brows	2
Ouse existing component Component					Brows	2
NOTE It is not recommended to mix	per-user and per-mach	ne registry in one o	omponent.			
NOTE It is not recommended to mix Values with special symbols	per-user and per-mach	ne registry in one c	omponent.			
NOTE It is not recommended to mix Values with special symbols Key	per-user and per-mach	ne registry in one o Value name	omponent. Valu	e	MSI tabl	e
NOTE It is not recommended to mix Values with special symbols Key	per-user and per-mach	ne registry in one o Value name	omponent. Valu	e	MSI tabl	e
NOTE It is not recommended to mix Values with special symbols Key	per-user and per-mach	ne registry in one o Value name	omponent. Valu	e	MSI tabl	2
NOTE It is not recommended to mix Values with special symbols Key	per-user and per-mach	ne registry in one o	omponent. Valu	e	MSI tabl	e
NOTE It is not recommended to mix Values with special symbols Key BESCAPE square bracket characters to OProcess values in square bracket as N	per-user and per-mach deliver original values (e. /ISI properties (e.g. [Strin	ne registry in one c Value name g. [\[]String[\]]) g])	omponent.	e	MSI tabl	2

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.
Process values in square brackets as MSI 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. •



Save

Edit

Help Quit


4.7.6.5 Export Registry

Export the selected registry to the REG file.

• <u>Go to the Package Designer -> Registry tab.</u>

_	Registry		53 values V Colla	pse 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		
Eestures and components	🕢 🖿 📰 .msm	Key		
	🕀 🔚 .mst	Key		
	🕢 🔜 🔜 .wsi	Key		
opgrades	🕀 🖿 AppV	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 **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						- 🗆 X
	Package Designer	Tables Editor				
🕶 🗁 Package resources	Registry				53 values 💙 Colla	apse 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		
- E Package configuration	🗉 🚞 .mgp			Key		
Eestures and components	🗉 🛄 .msm			Key		
	🗉 🛄 .mst			Key		
	🗉 🛄 .wsi			Key		
O D D D D D D D D D D D D D D D D D D D	🗄 🔜 AppV			Key		
Properties	🖃 📗 Infopulse.DscnFile	nfopulse.DscnFile Import registry Shell Export registry	Key			
Summary information	🗄 🔛 Defaulticon			Key		
Media settings	🕀 🔚 shell			Key		
	🗞 (Default)	New key		String value	Docu Generator scenario	DOCUContextMenu
	🗞 (Default)	New value		String value	Docu Generator scenario	DOCUFileAssotiatic
	🗄 📗 Msi.MergeModule	New value/key removal		Key		
	🕀 🔚 Msi.Package	new value, key removal		Key		
	H Msi.Patch	Properties	F2	Key		
	🕀 🔚 Msi.Transform	Move to		Key		
	MSIGeneratorProje	Remove	Del	Key		
	WisePackageStudic	Co to Pagistry table		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		
	Add 🔺 Remov	/e				



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

Save As					Х
← → • ↑ ↓	> This PC > Downloads	ٽ ~	Search Downloads	5	<i>م</i>
Organize 🔻 Ne	ew folder				?
V 📌 Quick access	^ Name	Date modified	Гуре	Size	
Desktop	*	No items match your search.			
🕂 Downloads	*				
Documents	*				
Pictures	*				
> 🗥 OneDrive					
> 💻 This PC					
> 💣 Network					
> 🔩 Homegroup	v				
File <u>n</u> ame:					\sim
Save as <u>t</u> ype:	Registry files (*.reg)				~
 Hide Folders 			<u>S</u> ave	Cancel	

4.7.6.6 Set Permissions

Set custom permissions for the registry key.

• Go to the Package Designer -> Registry tab.

			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	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		
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 key, for which you want to set permissions. Note that permissions could not be changed for the registry values and root





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

Properties		· · · · · ·	_		×
	General	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 th	o obje is con	cts tainer o	only
		Apply 'Deny' permissions to and/or containers within th	o obje is con	cts tainer o	only
Add Remove					
Enable inheritance					
Propagate inheritable permissio	ns to all su	ubkeys and values			\sim
	Save	Cancel			



• Tick the Enable permission changes checkbox and click Add.

	nanges	checkbox and chek rad.		
Properties			- 🗆	×
	General	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 thi	o objects is container	only
		Apply 'Deny' permissions to and/or containers within thi	o objects is container	only
Add Remove				
Enable inheritance				
Propagate inheritable permissio	ns 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.

6	Add Gro	oup or SID		×
۲	Group			
	Built-ir	n users (BU)		~
0	SID			
		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



Enable permission chang	es	1 Annual Sector			Danu
Group/SID		Access rights	,	Allow Str	
Built-in users (BU)				<u>⊸</u> .	
		Special permissions			
		Select special permission:	5		
		Apply 'Allow' permission	to objec	ts	
		and/or containers within	this conta	ainer	oniy
		and/or containers within	to objec this conta	ts ainer	only
Add Rem	ove	-			

For saving your package, select Save from the MENU.

 MSI Editor - PACE_v5.0.0.msi

-			
MENU Package Summary	y 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		

pg. 221

4.7.6.7 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		
	E 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.

MENU Package Summary				
r dekage banniary	Package Designer Tables Editor			
 Package resources Files and folders Shortcuts Registry Custom actions Drivers Custom actions Package configuration Features and components ARP appearance Upgrades Properties Summary information Media settings 	Package Designer Tables Editor gistry me HKEY_CU/LM - Defined by installation type (Root: -1) HKEY_CLASSES_ROOT (Root: 0) Image	Type System hive System hive Key Key Key Key Key Key Key Key Key	53 value	es V Collanse all Show details
	Msi.Patch Msi.Transform Msi.Transform Msi.Transform Msi.Transform Msi.Transform Msi.Transform Msi.Patch M	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							- 0	×
■ MENU Package Summary	Package Designer	Tables Editor						
 ✓ Package resources ≦ Files and folders 	Registry		Type	Value	53 values T	Collapse all	Show deta	ils
 First and folders Shortcuts Registry Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information Media settings 	Name HKEY_CU/LM - Define HKEY_CLASSES_ROOT N Q, Infopuise.Dscni HKEY_CURRENT_USE HKEY_CURRENT_USE HKEY_LOCAL_MACHI HKEY_USERS (Root:	d by installation type (Root: -1) (Root: 0) File Import registry Export registry New key New value New value/key removal Properties F2 Move to Remove Del Go to Registry table Go to Component table	Type System hive System hive System hive System hive System hive	Value			Component_	
	Add 🔺 Remo	DVe						

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

Properties	– 🗆 X
Gener	al Permissions
Enable permission changes	
Group/SID	Access rights Allow Deny
Built-in users (BU)	Full control
	Read 🗹 🗌
	Special permissions
	Select special permissions
Add Remove	 Apply 'Allow' permissions to objects and/or containers within this container only Apply 'Deny' permissions to objects and/or containers within this container only
Propagate inheritable permissions to a	II subkeys and values
Propagate inneritable permissions to a	iii subkeys and values V
Sav	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		renarige		_		~
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 Summar	y 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 MS	I		
Generate package report			Complexity level:
Deploy to SCCM			Medium
Active scripting			
Compare packages			
Edit	•		
Import and export	•		
Validation	•		
Help	•		
Quit	Alt + F4		

4.7.6.8 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					- 🗆 ×
	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	2	
🗞 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		
	🕀 🔚 AppV		Key		
Properties	Infopulse.DscnFile	Infopulse.DscnFile	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	2	
	Software	Go to component table	Key		
	HKEY_LOCAL_MACHINE	(Root: 2)	System hive	•	
	SOFTWARE		Key		
	HKEY_USERS (ROOT: 3)		System hive	2	
	Add 🔺 Remo	/e			



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

Select a key	_	×
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)		
Y Select Cancel		

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



4.7.6.9 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	MSI Editor - PACE_v5.0.0.msi — 🗆 🗙					
	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 - 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	🗃 🛄 .msm 🛞 📜 .mst				
	🕀 🛄 .mst					
G Upgrades	.wsi	ĸ		Key		
Properties	E AppV			Key		
Fioperales	Infopulse.DscnFile			Key		
Summary mormation	Defaulticon	Import registry		Key		
i Miedia settings	shell	Import registry		Key		
	(Default)	Export registry		String value	Docu Generator scenario	DOCUContextMen
	(Detault)	New key		String value	Docu Generator scenario	DOCUFIleAssotiatic
	Misi.Mergewodu	New value		Key		
	Mci Patch	New value/key remova	I –	Key		
	Msi.ratch	Properties	E2	Key		
	MSIGeneratorPro	Move to	12	Key		
	WisePackageStu	Pomovo	Del	Key		
	HKEY_CURRENT_USE	Remove	Dei	System hive		
	Software	Go to Registry table		Key		
	HKEY_LOCAL_MACH	Go to Component tabl	e	System hive		
	E SOFTWARE			Key		
	HKEY_USERS (Root: 3)		System hive		
	Add 🔺 Rem	ove				

 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: 'F	Registry'				
Name					
DefaultIcon					
Parent key					
Infopulse.DscnFile				Browse.	
Root					
HKEY_CLASSES_ROOT (0)					~
Options					
Create key on install, eve	n if empty				
Component_					
					~
Remove key with all of its Component	values and subk	eys before install			
					\sim
Component_	values and subk	eys on uninstall			
					\sim
	Save	Cancel			

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

4.7.6.10 Edit Registry Value

Modify details of the selected registry value.

• Go to the Package Designer -> Registry tab.

-	Registry		53 values 🛛 🛛 Co	llapse all Show o
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		
APP appearance	🕀 🔚 .mst	Key		
	🗉 🔜 .wsi	Key		
Opgrades Deservation	🕀 🔚 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	Import registry	String value	Edit with MSI Generator	AppvAssotiation
	🗉 🚞 .dscn	Export registry	Key		
Opgrades	🕀 🚞 .mgp	New key New value New value/key removal	Key		
Properties	🕀 🚞 .msm		Key		
Summary information	🕀 🚞 .mst		Key		
📥 Media settings	🕀 🛄 .wsi		Key		
	🗉 📄 AppV	Properties F2	Key		
	Infopulse.DscnFile	Move to	Key		
	Msi.MergeModule	Remove Del	Key		
	Msi.Package		Key		
	Msi.Patch	Go to Registry table	Key		
	Msi.Transform	Go to Component table	Key		
	MSIGeneratorProjec	t	Key		
	WisePackageStudio	Project	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		
	Add 🔺 Remo	ve			



 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: 'Re	egistry'					
Value processing method						
1. Set both name and value						~
Name			Identifier			
Content Type			regAD190B5	225F3F	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						\sim
	Save	Cancel				



Value processing method



1 Cat both name and value	On install, the package creates an ordinary registry value with the specified name and value itself in the system registry at the selected root and key.					
i. Set both hame and value	On uninstall, the packa the system registry. Th automatically removed	age removes this registry e containing registry key I only if it is empty.	y value from y will be			
	On install, the package the specified value in t root and key. In the sy represented as "(Defau	e creates the Default key he system registry at the stem registry, this value ult)":	value with e selected is			
2 Set <default> key value</default>	Name	Туре	Data			
	(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. Pomovo the koy 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 package system registry at the s empty. By default, emp	e creates the specified ke selected root, even if thi oty keys are not created	ey in the s key is			
	On uninstall, the package removes this key completely along with all of its values and subkeys.					

NOTE For removing registry values or keys from the system registry before install, add the **Value/key removal** item, described in section 4.7.6.3



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



4.7.6.11 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 R				
	egistry		53 values 💙 Colla	pse 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	\star 🔜 .msm	Key		
	\star 🔜 .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 **Properties** from the context menu of a 'Value/key removal' item, details of which you want to review and modify.

MSI Editor - PACE_v3.0.0.msi MSI Editor - PACE_v3.0.0.msi MENU Package Summary	Package Designer Tables Editor				X
🕶 🗁 Package resources	Registry			54 values 🔽 🛛	Collapse 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		Key		
Eestures and components	🖃 📕 [Manufacturer]		Key		
ARP appearance	[ProductName]		Key		
G Upgrades	[ProductVersion]		Key		
Properties	ProductCode]		Key		
	CompatibleMode	luce and an elister.	Value/key removal		cmp10286C2131D4
	Contig	Import registry		+	INI_config.ini1
in weak settings	HVEV LISEDS (Poot: 3)	Export registry			
		New key			
		New value			
		New value/key remova	I		
		Properties	F2		
		Move to			
		Remove	Del		
		Go to RemoveRegistry	table		
		Go to Component table	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				—		×
MSI table: 'F	lemoveRegistry'					
Value processing method						
Remove value on install						\sim
Name			Identifier			
CompatibleMode			reg_876dc4bd			
Key						
SOFTWARE\[Manufacturer]	[ProductName]\[ProductV	/ersio	n]\[ProductCod		Browse	
Root						
HKEY_LOCAL_MACHINE (2))					~
Component_						
cmp10286C2131D465A0E53	FC142F3D0226F					~
	Save Ca	ancel				

Value processing method			
Remove value on install	On install, right before ne ordinary registry value of root and key.	w registry value: the specified na	s are created, the package removes an me from the system registry at the selected
	On uninstall, no additiona	Il actions take pl	ace.
Clean-up <default> key value on install</default>	On install, right before ne Default key value with the key. In the system registry Name (Default) On uninstall, no additiona	w registry value: specified value this value is re Type REG_SZ Il actions take pl	s are created, the package cleans-up the in the system registry at the selected root and presented as "(Default)": Data (value not set) ace.
Remove the key with all of its values and subkeys on install	On install, right before ne completely along with all On uninstall, no additiona	w registry value: of its values anc Il actions take pl	s are created, the package removes this key I subkeys. ace.



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



Edit



4.7.7 Custom Actions

Choose a scenario that better suits your needs:

- Add Standard Actions, described in section 4.7.7.1 Add new standard actions to the necessary sequences.
- Add Custom Action, described in section 4.7.7.2 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 4.7.7.2.1 Run a PowerShell script from MSI on install or uninstall.
- Edit Custom Action, described in section 4.7.7.3 Edit basic type, resources, sequence and other settings of the existing custom action.

4.7.7.1 Add Standard Actions

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

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

-				
	Package 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
reference Shortcuts	🖃 🔚 Normal (simple) installation	-	-	-
🗞 Registry	🗉 🔚 VI 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
	SetHELPSHORTCTLOCATION	51	Set a new property value	Immediate
AKP appearance	SetSHORTCUTLOCATION	51	Set a new property value	Immediate
Dpgrades	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	-	-	-
	Ul sequence	-	-	-
	Execution sequence	-	-	-
	Advertisement installation	-	-	-
	Execution sequence	-	-	-
	🗄 🔚 Not sequenced	-	-	-
	Add • Edit Remove ^ V			





• (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			se all Show deta
E Filos and folders	Custom action now		89 Items Collap	stead and actions
	Actions (in order of execution)	Type and options	Basic type	standard actions
Shortcuts Devietory	Image: Installation	-	- Li Hide	removea items
Negistry	🗉 🦢 UI sequence	-	- Clear filt	er
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
C Upgrades	DisablePaceDowngrade	19	Display an error message	Immediate
Properties	ValidateProductID			
Media settines				
in Media settings	SetARPINSTALLLOCATION	51	Set a new property value	Immediate
	SetHELPSHORICILOCATION	51	Set a new property value	Immediate
	SetSHORICUTLOCATION	51	Set a new property value	Immediate
	Costrinaize			
	Install validate			
			Color and the last	torono d'ata
		51	Set a new property value	Immediate
	Meil Inpublich Accompliant			
	() Onpublish eatores			
	A Demovelni/alues			
	Approximited and a second and a			

• Select Add -> Standard actions from the toolbox.

 Package resources 	Custom action flow		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	🗈 🚞 VI sequence	-	-	•
> Custom actions	Execution sequence	-	-	
🐓 Drivers	> LaunchConditions			
 Package configuration 	> FindRelatedProducts			
Eestures and components	> AppSearch			
	SetWIX_IS_NETFRAMEWORK_472_OR_LATER_INSTALLED	51	Set a new property value	Immediate
	> DisablePaceDowngrade	19	Display an error message	Immediate
Opgrades Opgrades	ValidateProductID			
Properties	> Costinitialize			
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			
	ProcessComponents			
	MsiUnpublishAssemblies			
	Kemovekegistryvalues			
	Custom action duty			
	Standard actions			Y

• 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 evict in the on _1 1

Standard actions		
The list displays standard actions, which are recommended for the selecter and do not exist in the package yet. See all standard actions description of	d sequer Inline.	nce
Select all/none		*
□ MigrateFeatureStates		
□ AllocateRegistrySpace		
UnpublishComponents		
□ StopServices		
DeleteServices		
UnregisterComPlus		
SelfUnregModules		
UnregisterTypeLibraries		
RemoveODBC		
UnregisterFonts		
✓ UnregisterClassInfo		
✓ UnregisterExtensionInfo		
✓ UnregisterProgIdInfo		
UnregisterMIMEInfo		
□ RemoveEnvironmentStrings		
□ RemoveFolders		
□ CreateFolders		
L) MoveFiles		Ŧ
	Standard actions The list displays standard actions, which are recommended for the selecter and do not exist in the package yet. See all standard actions description of select all/none Select all/none MigrateFeatureStates AllocateRegistrySpace UnpublishComponents StopServices DeleteServices UnregisterComPlus SelfUnregModules UnregisterTypeLibraries RemoveODBC UnregisterFonts UnregisterProgldInfo UnregisterProgldInfo UnregisterProgldInfo MurregisterMIMEInfo RemoveEnvironmentStrings RemoveFolders OreateFolders 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 VunregisterClassInfo UnregisterProgldInfo UnregisterProgldInfo UnregisterMIMEInfo RemoveDolders RemoveFolders MoveFiles

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





4.7.7.2 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.

EMENU Package Summary Package Designer Tables Editor Package resources Files and folders Shortcuts Registry Cutom action Media settings Actions (in order of execution) Type and options Basic type Execution mode Show deta Cutom actions Yorkers Cutom actions Package configuration Features and components ARP appearance Set a new property value Immediate Set a new property value	MSI Editor - PACE_v5.0.0.msi				- 🗆 ×
Image: Package resources 20 items 20 items 20 items Collapse al Show deta Image: Piles and folders Shortcuts Actions (in order of execution) Type and options Basic type Execution mode Image: Pointers Shortcuts Image: Pointers - - - - Image: Pointers Image: Pointers - - - - - Image: Pointers Image: Pointers - - - - - - Image: Pointers Image: Pointers -	≡ MENU Package Summary	Package Designer Tables Editor			
Image: Files and folders Actions (in order of execution) Type and options Basic type Execution mode Image: Files and folders Image: Files and fold	 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
Registry - - - Custom actions - - - Drivers - - - Package configuration - - - Features and components - 51 Set a new property value Immediate ARP appearance - 0 SetSHORTCULCATION 51 Set a new property value Immediate Opprades - - - - - - Opprades - - - - - - Opprades - - - - - - - Opprades - - - - - - - - - Opprades - <	Shortcuts	🖃 🛅 Normal (simple) installation	-	-	-
Custom actions Image: Execution sequence - - Custom actions Image: Execution sequence - - - Processor Image: Execution sequence 51 Set a new property value Image: Execution sequence Processor Image: Execution sequence 19 Display an error message Image: Execution sequence ARP appearance Image: Execution Set anew property value Image: E	🗞 Registry	🗉 🔚 UI sequence	-	-	-
Image: Drivers S1 Set a new property value Immediate Image: Drivers Display an error message Immediate Immediate Display an error message Immediate Immediate Set a new property value Immediate Immediate Set a new property value Immediate Immediate SetHUEXPHOTECOLOCATION Set a new property value Immediate Immediate SetHORECUTLOCATION SetA new property value <	> Custom actions	🖃 🚞 Execution sequence	-	-	-
Image: Package configuration Image: Imag	🖋 Drivers	SetWIX_IS_NETFRAMEWORK_472_OR_LATER_INSTALLED	51	Set a new property value	Immediate
Image: Summary information	🕶 🗁 Package configuration	DisablePaceDowngrade	19	Display an error message	Immediate
Image: ARP appearance () SetHELPSHORTCTLOCATION 51 Set a new property value Immediate Upgrades () SetSHORTCUTLOCATION 51 Set a new property value Immediate Properties () SetSHORTCUTLOCATION 51 Set a new property value Immediate Summary information () SetSHORTCUTLOCATION 51 Set a new property value Immediate Media settings () SetSRIALKEYNULL 51 Set a new property value Immediate Media settings () SetSRIALKEYNULL 51 Set a new property value Immediate Media settings () InstallootNetVersion 3282 Launch an EXE Deferred Media settings () InstallootNetVersion 3238 Run a VBscript Deferred Ul sequence - - - - - Execution sequence - - - - - Advertisement installation - - - - -	Eestures and components	SetARPINSTALLLOCATION	51	Set a new property value	Immediate
C Marappearance (>) SetSHORTCUTLOCATION 51 Set a new property value Immediate C Upgrades (>) SetSRIALKEYNULL 51 Set a new property value Immediate P Properties (>) SetSRIALKEYNULL 51 Set a new property value Immediate Summary information (>) SetSRIALKEYNULL 1 Call a function from DLL Immediate Media settings (>) InstallOotNetVersion 3282 Launch an EXE Deferred Media settings (>) InstallootNetVersion 3283 Run v5Script Deferred ImmediateCache 2 2 2 2 2 2 ImmediateCache 2 2 2 2 2 2 ImmediateCache 2		SetHELPSHORTCTLOCATION	51	Set a new property value	Immediate
Objigades > SetSERIALKEYNULL 51 Set a new property value Immediate Properties > SchedXmilConfig 1 Call a function from DLL Immediate Summary information > SchedXmilConfig 3282 Launch an EXE Deferred Media settings > Immediate > SchedXmilConfig 3282 Launch an EXE Deferred Immediate > RemoveWebinstallerCache 3238 Run a VBscript Deferred Immediate Immediate Immediate - - - Immediate Immediate Immediate - - - Immediate Immediate - - - - - Immediate Immediate - - - - - Immediate Immediate - - - - - Immediate Immediate - - - - - - Immediate Immediate - - -		SetSHORTCUTLOCATION	51	Set a new property value	Immediate
Properties (\$) SchedXmlConfig 1 Call a function from DLL Immediate Immediate (\$) InstallDotNetVersion 3282 Launch an EXE Deferred Media settings (\$) InstallDotNetVersion 3282 Run a VBscript Deferred Immediate (\$) RemoveWebinstallerCache 3238 Run a VBscript Deferred Immediate Immediate - - - - Imm	Opgrades	SetSERIALKEYNULL	51	Set a new property value	Immediate
Image: Summary information IstailDotNetVersion 3282 Launch an EXE Deferred Media settings Administrative installerCache 3238 Run a VBScript Deferred Image: Comparison of the settings Administrative installation - - - Image: Comparison of the settings Image: Comparison of the setting o	Properties	SchedXmlConfig	1	Call a function from DLL	Immediate
Media settings Image: Settings Image: Settings Image: Settings Run a VBScript Deferred Image: Settings Image: Administrative installation - - - - Image: Settings Image: Settings Image: Settings - - - - Image: Settings Image: Settings - - - - - - Image: Settings Image: Settings -<	Summary information	InstallDotNetVersion	3282	Launch an EXE	Deferred
Administrative installation -	📥 Media settings	RemoveWebinstallerCache	3238	Run a VBScript	Deferred
Ul sequenceExecution sequenceB Advertisement installation		Administrative installation	-	-	-
Execution sequence - - - B > Advertisement installation - - -		Ul sequence	-	-	-
Image: Constraint of the second se		Execution sequence	-	-	-
		Advertisement installation	-	-	-
Execution sequence		Execution sequence	-	-	-
B in Not sequenced		Figure 1	-	-	-
		Add • Edit Remove			

• Select Add -> Custom action from the toolbox.

ኮ 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	Impley installation	-	-	-
🗞 Registry	E Transferrer 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
Eastures and components	> SetARPINSTALLLOCATION	51	Set a new property value	Immediate
APP appearance	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
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	-	-	-



• 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).

l 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.	
 O Display an error message A custom action that displays a specified error message, returns failure, and then terminates the ir 	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	e Resources	Options	Sequencing				
Run a VBScript							
 Stored in the temporary binary stream Binary 							
				~	New	binary	
O Installed by this package along with this a File	application						
					Bro	wse	
 Code of which is specified in the property 	/						
				~	New p	propert	у
 Code of which is specified directly in the Script code 	custom action						
Function Show_Message(msgType, msg	Text)						*
Set record = Session.Installer.CreateRe record.StringData(0) = msgText	en cord(0)						-
Optional function that can be	e called						
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 setting
--

Add/Edit custom action			1			_		×
								
	Basic type	Resources	Options	Sequenc	ing			
Identification								
Action name								
CA_VBScript_1								
Execution and proce	essing settin	gs						
Execution mode								
Deferred (Execute the action v	while the system is	s being modified)						~
O Run in logged-on user's cor	ntext							
Run in system context								
O Run with user impersonatio	n during per-mac	hine installs on a t	terminal serve	r				
Scheduling option								
Always execute (default)								\sim
Return processing option								
A synchronous execution that	fails if the exit co	de is not 0						~
✓ Write the custom action de	tails to the log file	1						
Run IScript or VBScript in 6	4-bit environmen	t						
				< Back	Next >		Cance	1



• 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.

Basic type Resources Options Sequencing Durage UI sequence conditions Image Image Image Image	Add/Edit custom action							×
Basic type Resources Options Sequencing U sequence U sequence conditions Image: Conditions Image: Conditions Image: Conditions Do not run in this sequence Image: Conditions Image: Conditions Image: Conditions Image: Conditions Execution sequence (recommended) Execution sequence conditions Image: Conditions Image: Conditions U sequence U sequence conditions Image: Conditions Image: Conditions Image: Conditions U sequence U sequence conditions Image: Conditions Image: Conditions Image: Conditions Execution sequence Execution sequence conditions Image: Conditions Image: Conditions Image: Conditions Do not run in this sequence Image: Conditions related to collecting system information, are only processed the user interface level is set to Reduced or Full; and, respectively are skipped if level is set to basic UI or no U. Image: Conditional State conditions for individual use and groups of users. The advertisement installation sequence is not present on this step because it cannot be used for custom actions. Image: Conditional Statement Syntax online.	~	.						
Normal (simple) installation UI sequence UI sequence conditions Do not run in this sequence Execution sequence conditions Execution sequence (recommended) Execution sequence conditions Run after InstallInitialize Image: Conditions Administrative installation Image: Conditions UI sequence UI sequence conditions Do not run in this sequence Execution sequence conditions Do not run in this sequence Execution sequence conditions Do not run in this sequence Execution sequence conditions NOTE The UI sequences, which typically contain standard actions related to collecting system information, are only processed the user interface level is set to Reduced or Full; and, respectively are skipped if level is set to basic UI or no UI. An administrative installation is typically initiated by a network administrator to assign and install applications for individual use and groups of users. The advertisement installation sequence is not present on this step because it cannot be used for custom actions. For information on the sequence conditions, see Conditional Statement Syntax online.	Basic type Re	sources	Options	Sequenci	ing			
Ul sequence Ul sequence conditions Do not run in this sequence Execution sequence conditions Run after InstallInitialize Image: Condition sequence conditions Administrative installation Ul sequence conditions Ul sequence Ul sequence conditions Do not run in this sequence Ul sequence conditions Do not run in this sequence Execution sequence conditions Do not run in this sequence Image: Condition sequence conditions NOTE The UI sequences, which typically contain standard actions related to collecting system information, are only processed the user interface level is set to Reduced or Full; and, respectively are skipped if level is set to basic UI or no UI. An administrative installation is typically initiated by a network administrator to assign and install applications for individual use and groups of users. The advertisement installation sequence is not present on this step because it cannot be used for custom actions. For information on the sequence conditions, see Conditional Statement Syntax online.	Normal (simple) installation							
Do not run in this sequence Execution sequence (recommended) Run after InstallInitialize Administrative installation UI sequence conditions UI sequence Do not run in this sequence on this tandard actions related to collecting system information, are only processed the user interface level is set to Reduced or Full; and, respectively are skipped if level is set to basic Ul or no Ul. An administrative installation is typically initiated by a network administrator to assign and install applications for individual use and groups of users. The advertisement installation sequence is not present on this step because it cannot be used for custom actions. For information on the sequence conditions, see Conditional Statement Syntax online.	UI sequence	U	I sequence cond	itions				
Execution sequence (recommended) Execution sequence conditions Run after InstallInitialize Image: Condition installation UI sequence UI sequence conditions Do not run in this sequence Execution sequence conditions Execution sequence Execution sequence conditions Do not run in this sequence Execution sequence conditions NOTE The UI sequences, which typically contain standard actions related to collecting system information, are only processed the user interface level is set to Reduced or Full; and, respectively are skipped if level is set to basic UI or no UI. An administrative installation is typically initiated by a network administrator to assign and install applications for individual use and groups of users. The advertisement installation sequence is not present on this step because it cannot be used for custom actions. For information on the sequence conditions, see Conditional Statement Syntax online.	Do not run in this sequence	~						
Run after InstallInitialize Image: Constraint of the sequence of the sequence, which typically contain standard actions related to collecting system information, are only processed the user interface level is set to Reduced or Full; and, respectively are skipped if level is set to basic UI or no UI. An administrative installation is typically initiated by a network administrator to assign and install applications for individual use and groups of users. The advertisement installation sequence is not present on this step because it cannot be used for custom actions. For information on the sequence conditions, see Conditional Statement Syntax online.	Execution sequence (recommended)	Ex	ecution sequent	ce conditions				
Administrative installation UI sequence Do not run in this sequence Execution sequence Do not run in this sequence Do not run in this sequence NOTE The UI sequences, which typically contain standard actions related to collecting system information, are only processed the user interface level is set to Reduced or Full; and, respectively are skipped if level is set to basic UI or no UI. An administrative installation is typically initiated by a network administrator to assign and install applications for individual use and groups of users. The advertisement installation sequence is not present on this step because it cannot be used for custom actions. For information on the sequence conditions, see Conditional Statement Syntax online.	Run after InstallInitialize	~						
UI sequence UI sequence conditions Do not run in this sequence Execution sequence conditions Do not run in this sequence Execution sequence conditions NOTE The UI sequences, which typically contain standard actions related to collecting system information, are only processed the user interface level is set to Reduced or Full; and, respectively are skipped if level is set to basic UI or no UI. An administrative installation is typically initiated by a network administrator to assign and install applications for individual use and groups of users. The advertisement installation sequence is not present on this step because it cannot be used for custom actions. For information on the sequence conditions, see Conditional Statement Syntax online.	Administrative installation							
Do not run in this sequence Execution sequence conditions Do not run in this sequence Image: Condition sequence conditions NOTE The UI sequences, which typically contain standard actions related to collecting system information, are only processed the user interface level is set to Reduced or Full; and, respectively are skipped if level is set to basic UI or no UI. An administrative installation is typically initiated by a network administrator to assign and install applications for individual use and groups of users. The advertisement installation sequence is not present on this step because it cannot be used for custom actions. For information on the sequence conditions, see Conditional Statement Syntax online.	UI sequence	U	I sequence cond	itions				
Execution sequence Execution sequence conditions Do not run in this sequence Execution sequence conditions NOTE The UI sequences, which typically contain standard actions related to collecting system information, are only processed the user interface level is set to Reduced or Full; and, respectively are skipped if level is set to basic UI or no UI. An administrative installation is typically initiated by a network administrator to assign and install applications for individual use and groups of users. The advertisement installation sequence is not present on this step because it cannot be used for custom actions. For information on the sequence conditions, see Conditional Statement Syntax online.	Do not run in this sequence	\sim						
Do not run in this sequence NOTE The UI sequences, which typically contain standard actions related to collecting system information, are only processed the user interface level is set to Reduced or Full; and, respectively are skipped if level is set to basic UI or no UI. An administrative installation is typically initiated by a network administrator to assign and install applications for individual use and groups of users. The advertisement installation sequence is not present on this step because it cannot be used for custom actions. For information on the sequence conditions, see Conditional Statement Syntax online.	Execution sequence	Exe	ecution sequent	ce conditions				
NOTE The UI sequences, which typically contain standard actions related to collecting system information, are only processed the user interface level is set to Reduced or Full; and, respectively are skipped if level is set to basic UI or no UI. An administrative installation is typically initiated by a network administrator to assign and install applications for individual use and groups of users. The advertisement installation sequence is not present on this step because it cannot be used for custom actions. For information on the sequence conditions, see Conditional Statement Syntax online.	Do not run in this sequence	~						
and groups of users. The advertisement installation sequence is not present on this step because it cannot be used for custom actions. For information on the sequence conditions, see Conditional Statement Syntax online.	NOTE The UI sequences, which typically contain stand the user interface level is set to Reduced or Full; and, An administrative installation is typically initiated by a	ard actions rel respectively ar network admir	elated to collec re skipped if le inistrator to as	tting system i evel is set to b sign and inst	information, are basic UI or no L all applications	e only pr Jl. for indiv	ocessec vidual us	d if sers
The advertisement installation sequence is not present on this step because it cannot be used for custom actions. For information on the sequence conditions, see Conditional Statement Syntax online.	and groups of users.							
For information on the sequence conditions, see Conditional Statement Syntax online.	The advertisement installation sequence is not presen	t on this step l	because it car	nnot be used	for custom act	ions.		
	For information on the sequence conditions, see Con	ditional Stater	ment Syntax o	nline.				
✓ Back Finish Cancel				< Back	Finish		Cancel	

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



4.7.7.2.1 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 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 components	PACE Suite (ID: SHORTCUTLOCATION)	Folder			Directory
	PACE Suite (ID: InfopulseProgramMenuFolder)	Folder			Directory
ARF appearance	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory
) Upgrades	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.

Fackage resources	Files and folders		426 files	(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
	🗈 📗 MSI Editor (ID: EDITORINS	Properties E2	Folder			Directory
	MSI Editor (ID: MSIEDITOR	Sot as INISTALL DIP	Folder			Directory
Upgrades	MSI Generator (ID: MSIGE	Mayo to folder	Folder			Directory
Properties	MSI Generator (ID: MSIGE	Nove to folder	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)	Folder			Directory	
	PACE Suite (ID: InfopulseProgra	Folder			Directory	
	PACE Suite (ID: DOCUSHORTCU	Folder			Directory	
	PACE Suite (ID: EDITORSHORTC	PACE Suite (ID: EDITORSHORTCUTLOCATION)				Directory
	WindowsFolder		Folder			Directory
	🕀 🛄 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	I to MSI		×
← → • ↑ 📘	> This PC > Documents > Script ~	ට Search Script	م
Organize 🔻 Ne	ew folder	:== :==	• 🔳 🕐
📌 Quick access	Name	Date modified	Туре
Desktop		2/21/2017 3:32 PM	Windows PowerS
🕂 Downloads	A		
Documents	*		
Pictures	A.		
OneDrive			
💻 This PC			
💣 Network			
🔩 Homegroup			
	<		>
	File <u>n</u> ame: psscript.ps1	✓ All files (*.*) <u>Open</u>	∼ 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						_		×
		•						
		Files	Settings	Import COM				
Files to import								
Name	Size	Target path						
psscript.ps1	1,2 KB	ProgramFiles	Folder\PACE Suite	\psscript.ps1				
Add A Remove							Files	:1
Complete operation with defa	ult settings				Next >		Cancel	

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

MSI Editor - PACE_v5.0.0.msi				– 🗆 X
■ MENU Package Summary	Package Designer Tables Editor			
🕶 🗁 Package resources	Custom action flow		20 items 💙 Collaps	e 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	DisablePaceDowngrade	19	Display an error message	Immediate
Eeatures and components	SetARPINSTALLLOCATION	51	Set a new property value	Immediate
	SetHELPSHORTCTLOCATION	51	Set a new property value	Immediate
	SetSHORTCUTLOCATION	51	Set a new property value	Immediate
Dranastias	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	-	•	-
	Image: Sequenced	-	-	-
	Add 🔺 Edit Remove 🔨 🗸			



Select Add -> Custom action from the toolbox.

 MSI Editor - PACE_v5.0.0.msi

🕶 🖻 Package resources 🛛 🤇	Lustom action flow		20 items 💙 Collar	ose all Show details
Files and folders	Actions (in order of execution)	Type and options	Basic type	Execution mode
Shortcuts	Imple) 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
ABD approximates	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
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	-	-	-
	Ul sequence	-	-	-
	Execution sequence	-	-	-
	Advertisement installation	-	-	-
	Execution sequence	-	-	-
	Figure 1 Figure 1	-	-	-

• 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++.			
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.	
< 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						_		\times
								
	Basic type	Resources	Options	Sequencin	g			
Launch an EXE								
 Stored in the temporary b Binary 	inary stream							
					>	New	binary	
O Installed by this package a File	long with this appl	lication						
						Bro	wse	
 Located on the system at Property 	the path, which is s	specified in the pro	operty					
					~	New	propert	y
 Located on the system at Working folder 	the path, which is s	specified in the Co	mmand line fiel	d, in the select	ed working fo	lder		
					0	Bro	wse	
Command line strin	ng 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 fo text attributes.	ormatted text See formatted	and may I text des	contai	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					
PACE Suite					
PACE Suite					
PACE Suite					
UvindowsFolder					
security					
▼ 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	Resources	Options	Sequencing				
Launch an EXE								
 Stored in the temporary bina Binary 	ary stream							
					\sim	New	/ binary	
 Installed by this package alor File 	ng with this appli	ication						
						Bro	owse	
 Located on the system at the Property 	e path, which is s	pecified in the pro	operty					
					\sim	New	propert	у
 Located on the system at the Working folder 	e path, which is s	pecified in the Co	mmand line fiel	d, in the selected v	working fol	der		
ProgramFilesFolder\PACE Si	uite (ID: INSTALL	.DIR)				Bro	owse	
Command line string	for execut	able						
powershell.exe -ExecutionPolic	y Bypass -File "p	osscript.ps1"						
NOTE Quotation marks must be references to properties, files, fo online.	e used around lo olders, environm	ng file names or p ent variables or of	baths. The value ther formatted t	is treated as form ext attributes. See	atted text formatted	and may text des	contaii criptior	n
				< 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	essing settin	gs					
Deferred (Execute the action	while the system i	s being modified)					~
 Run in logged-on user's co Run in system context Run with user impersonation 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 waits for exit c	ode at the end of	the sequence				~
✓ Write the custom action de	tails to the log file	2					
Run JScript or VBScript in 6	4-bit environmen	t					
				/ Pack	Novt N	Canca	1
				V DACK	Next 7	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.

log Add/Edit custom action	— 🗆 X
 _	•
Basic type Resources	Options Sequencing
Normal (simple) installation	
UI sequence	UI sequence conditions
Do not run in this sequence	
Execution sequence (recommended)	Execution sequence conditions
Run after InstallFiles 🗸 🗸	
Administrative installation	
UI sequence	UI sequence conditions
Do not run in this sequence 🗸 🗸	
Execution sequence	Execution sequence conditions
Do not run in this sequence 🗸 🗸	
NOTE The UI sequences, which typically contain standard actions the user interface level is set to Reduced or Full; and, respectively An administrative installation is typically initiated by a network ac and groups of users.	s related to collecting system information, are only processed if y are skipped if level is set to basic UI or no UI. dministrator to assign and install applications for individual users
The advertisement installation sequence is not present on this st	ep because it cannot be used for custom actions.
For information on the sequence conditions, see Conditional Sta	atement Syntax online.
	K Back Finish Cancel

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


4.7.7.3 Edit Custom Action

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

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

Package resources	Custom action flow		20 items 🝸 Collar	ose all Show deta
Files and folders	Actions (in order of execution)	Type and options	Basic type	Execution mode
Shortcuts	🖃 📅 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
Eastures and components	SetARPINSTALLLOCATION	51	Set a new property value	Immediate
	SetHELPSHORTCTLOCATION	51	Set a new property value	Immediate
ARF 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	-	-	-
	Ul sequence	-	-	-
	Execution sequence	-	-	-
	Advertisement installation	-	-	-
	Execution sequence	-	-	-
	🗄 🗁 Not sequenced	-	-	-

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

	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
C 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
Eestures and components	SetARPINSTALLLOCATI	ON		51	Set a new property value	Immediate
	SetHELPSHORTCTLOCA	ATION		51	Set a new property value	Immediate
	SetSHORTCUTLOCATIC	IN		51	Set a new property value	Immediate
	> 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		-	-	-
	Advertisement installation	nemote man an references		-	-	-
	Execution sequence	Go to CustomAction table		-	-	-
	Not sequenced	Go to InstallExecuteSequence t	able	-	-	-



• 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++. 			
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 specifie 	d conditic	ins.	
 O Display an error message A custom action that displays a specified error message, returns failure, and then terminates the 	installatio	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 	inary stream							
					~	Nev	v binary	/
 Installed by this package a File 	long with this app	ication						
ProgramFilesFolder\PACE	Suite\Prerequisite	s\NDP462-KB3151	802-Web.exe (I	D: NDP462KB315180	2Weł	Br	owse	
 Located on the system at the property 	he path, which is s	pecified in the pro	operty					
					\sim	New	propert	ty
 Located on the system at a Working folder 	he path, which is s	pecified in the Co	mmand line fiel	d, in the selected wo	orking fol	der		
						Br	owse	
Command line strin	ng for execut	able						
NOTE Quotation marks must references to properties, files online.	be used around lo folders, environm	ong file names or p ent variables or o	oaths. The value ther formatted t	is treated as format ext attributes. See fo	ted text a	and may text de	y contai scriptior	in n
				K Back	ext]	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 type	Resources	Options	Sequencing			
Identification							
Action name							
InstallDotNetVersion							
Execution and proces	ssing settin	gs					
Deferred (Execute the action w	hile the system is	being modified)					~
 Run in logged-on user's con Run in system context Run with user impersonation Scheduling option 	text during per-mac	hine installs on a t	erminal server				
Always execute (default)							\sim
Return processing option							
An asynchronous execution the	at does not wait f	for completion					~
✓ Write the custom action det	ails to the log file						
Run JScript or VBScript in 64	-bit environment						
				K Back Nex	t >	Cance	



 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				_		Х
oo-						
Basic type Resource	es Option	s Sequenc	ing			
Normal (simple) installation						
UI sequence	UI sequence	conditions				
Do not run in this sequence	\sim					
Execution sequence (recommended)	Execution se	quence conditions				
Run after PublishProduct	 (NOT Inst 	alled) AND (NOT	WIX_IS_NETFRAM	IEWOR	K_462_	OR.
Administrative installation	UI sequence	conditions				
Do not run in this sequence	~					
Execution sequence	Execution se	quence conditions				
Do not run in this sequence	~					
NOTE The UI sequences, which typically contain standard as the user interface level is set to Reduced or Full; and, respect An administrative installation is typically initiated by a netwo and groups of users.	ctions related to o ctively are skippe ork administrator	collecting system d if level is set to to assign and ins	information, are o basic UI or no UI. tall applications fo	nly pro	ocessec dual us	l if sers
The advertisement installation sequence is not present on the	his step because	t cannot be used	for custom actior	ns.		
For information on the sequence conditions, see Condition	al Statement Syn	tax online.				
-						
		< Back	Finish	(Cancel	

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



4.7.8 Drivers

Choose a scenario that better suits your needs:

- Add Driver, described in section 4.7.8.1 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 4.7.8.2 Edit installation options, conditions and target architecture of the existing device driver.

4.7.8.1 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					— 🗆	×
	•					
	Sources	Sources settings	Installation options			
Driver sources						
Driver installation file (INF)						
				0	Browse	
Driver files						
Select all/none						
Refresh						
NOTE The only ticked files will be incorpor	ated into the pac	kage.				
				N	C 1	
				Next >	Cancel	



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



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.

le 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 i Microsoft packaging best practices.	s used to make it ea:	sier for you to fir	id all driver components, c	reated accord	ding to the 1	
			< 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



-1..... alatt

Iriver on both 32-bit and	64-bit platf	orms.			
Add driver				— 🗆	×
					
	Sources	Sources settings	Installation options		
Driver installation option	IS				
Overwrite the existing driver Force the installation of a new driv one.	ver, even if the drive	er that is current	y installed on a device is a be	etter match than the n	ew
Prompt the user to connect the de Display this prompt only if a device	evice to the compu e that matches the	ter driver is not con	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 to	hat have missing fi	les ;ee Installing Uns	igned Driver Packages in Leg	gacy Mode online.	
Remove driver files from the syste This option should be used with c required by any other driver packs system.	m driver store on u aution and should l age or application.	ininstallation be used only if th Starting with Wii	ne caller can verify that a bin ndows 7, this flag setting is ig	ary file in the system is nored by the operatir	i not Ig
Installation conditions					
Target architecture					
Install drivers only on 64-bit platform	ns				~
NOTE Driver Install Frameworks (DIF) single package. Use separate packag	c) tools do not supp es for each of the p	oort installation o platforms.	of drivers on both 64-bit and	32-bit platforms using	a
			K Back F	inish Cano	:el

٥

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





4.7.8.2 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		- □ >
E MENU Package Summary	Package Designer Tables Editor	
Package resources	Drivers	1 item 💙 Show details
Files and folders	Drivers (in order of installation) INF file	Options
Shortcuts	Driver_CH341SER.INF CH34	1SER.INF 0
🗞 Registry		
Custom actions		
🐓 Drivers		
Package configuration		
Features and components		
🖵 ARP appearance		
😅 Upgrades		
Properties		
Summary information		
🖂 Media settings		

• 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 Custom actoringuration Features and components ARP appearance Upgrades Properties Summary information Media settings 	Package Desig	ner Tables Editor	F2 Del 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 device is a better	er 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 computer.	
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 Packages in Legac	y 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 that a binary required by any other driver package or application. Starting with Windows 7, this flag setting is igno system.	file in the system is not red 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 64-bit and 32 single package. Use separate packages for each of the platforms.	-bit platforms using a

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





4.7.9 Features and Components

Choose a scenario that better suits your needs:

- Add Feature, described in section 4.7.9.1 Add a new root feature or subfeature to the package.
- Add Component, described in section 4.7.9.2
 Add a new component to one or many features and set the component properties.
- Move Feature, Component, described in section 4.7.9.3 Move a feature or a component to another feature.
- Edit Feature Properties, described in section 4.7.9.4 Edit feature properties such as ID, title, folder, installation state, type, display options and advertisement.
- Edit Component Properties, described in section 4.7.9.5 Edit component properties such as name, GUID, conditions, key path, attributes and relationship with features.
- Detect Empty Components, described in section 4.7.9.6 Find empty components with no linked resources in order to remove them.
- Review Component Resources, described in section 4.7.9.7 Review what resources (files, registry, shortcuts, etc.) are linked with the component.

4.7.9.1 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.

MSI Editor - PACE_v5.0.0.msi					– 🗆 X
■ MENU Package Summary	Package Designe	er Tables Editor			
Package resources	Features and o	components			Collapse all Show details
 Flies and folders Shortcuts 	Name	r Core (ID: DocuGenerator)		Type Feature (Install Visible and col	KeyPath
🗞 Registry	Infopulse PACE	Suite (ID: MsiGenerator)		Feature (Install, Visible and exp	
> Custom actions	Hisi Editor (ID: I	MsiEditor)		Feature (Install, Visible and exp	
🐓 Drivers	PACE Suite (ID:	ProductFeature)		Feature (Install, Visible and col	
🕶 🛅 Package configuration	E Prame	lew feature		Feature (Install, Visible and col	
Features and components		lew component		Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054
🖵 ARP appearance	PACE S E	xport to Merge Module		Feature (Install, Visible and col	December File Failer DACE Soft Still A 45 (ID) Fill A 40
😅 Upgrades		Properties F2		Component	
Properties	H M rel N	Nove to		Component	Program FilesFolder\PACE Suite\Release notes.put (iD: release
Summary information	🗉 🖬 use R	Remove Del	0	Component	HKCU\Software\[Manufacturer]\[ProductName]\RemoveFile\\/
🖂 Media settings	B PACE_Com	Contra Frankrise Arbela		Feature (Install, Visible and exp	
	E M INI_colmgm	50 to Feature table		Component	& HKLM\SOFTWARE\[Manufacturer]\[ProductName]\[ProductVe
	Add 🔺	Remove			

• 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.

Properties		– 🗆 ×
🔲 🔲 MSI table	: 'Feature'	
Title	Identifier	
Newfeature	Newfea	ture
Parent feature		
PACE Suite (ID: Product	Feature)	Browse
Make this feature root		
Description		
Destination folder		
		Browse
Reset		
Debayiour and a		
benaviour and a	ppearance	
Initial Installation state	Installation type	
Install	Install feature components locally	~
Display option	Advertise	
Visible and collapsed	 Allow advertise 	~
Disallow user to chang	ge feature state to Absent	

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	

4.7.9.2 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			- 🗆 X
MENU Package Summary	Package Designer Tables Editor		
 Package resources 	Features and components		🔠 🕒 🟹 Collapse all Show details
Files and folders	Name	Type	KeyPath
Shortcuts	Docu Generator Core (ID: DocuGenerator)	Feature (Install Visible and col	
🗞 Registry	Infopulse PACE Suite (ID: MsiGenerator)	Feature (Install, Visible and ext	
	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	
	Image: MDP472KB4054531Web.exe	Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054
Features and components	PACE Suite user manual (ID: PaceManual)	Feature (Install, Visible and col	
ARP appearance	🕀 🔛 EULA.rtf	Component	ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
Upgrades	🕢 🔛 release_notes.pdf	Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release
P Properties	🕢 🔛 release_notes.xps	Component	ProgramFilesFolder\PACE Suite\Release notes.xps (ID: release
Summary information	🗉 🔛 user_manual 🕴	Component	🗞 HKCU\Software\[Manufacturer]\[ProductName]\RemoveFile\N
📇 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.

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 PA	CE Suite (ID: MsiGenerator)		Feature (Install, Visible and exp	
> Custom actions	🕀 📑 Msi Editor (D: MsiEditor)		Feature (Install, Visible and exp	
💋 Drivers	PACE Suite	(ID: ProductFeature)		Feature (Install, Visible and col	
 Package configuration 	🖃 🔡 Frame	New feature		Feature (Install, Visible and col	
Eeatures and components	🕀 🔛 NE	New component		Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054
	E PACE S	Export to Merge Module		Feature (Install, Visible and col	
	🕀 🔛 EU	Dreportion 50	-	Component	ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
Properties	🕀 🔛 rei	Mounte F2		Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release
Fioperates	🕀 🔛 rei	Nove to		Component	ProgramFilesFolder\PACE Suite\Release notes.xps (ID: release
	🗉 🎽 use	Remove Dei		Component	HKCU\Software\[Manufacturer]\[ProductName]\RemoveFile\N
- Media settings	PACE_Com	Go to Feature table		Feature (Install, Visible and exp	
	INI_COM	igani i		Component	HKLM\SOFTWARE\[Manufacturer]\[ProductName]\[ProductVe
	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 ·	- 🗆	\times
General Attributes Relationships		
MSI table: 'Component'		
Name		
NewComponent		
Component ID (GUID)		_
{DB0FDAB0-CCE4-4C97-9B21-19638EF0E366}	New	
Conditions		
Folder and KeyPath		
Files destination folder		
TARGETDIR (ID: TARGETDIR)	Browse	
NOTE Changing this tolder leads to changing the Target folder for all the co	mponent files.	
KeyPath type		
Folder ('Files destination folder' is used as the KeyPath)		~
KeyPath		
TARGETDIR (ID: TARGETDIR)	Browse	
Save Cancel		

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

MENU Package Summary	Package Designer	Tables Editor		
New MSI	Ctrl + N		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			Wedidin	
Active scripting				
compare packages				
Edit	•			
Import and export				
Validation				
пер				
Quit	Alt + F4		Deceleulate Evenest require to file	

4.7.9.3 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	Package resources Image: Show det Image: Features and components Type KeyPath Image: Show det Shortcuts Image: Show det Image: Show det Show det Show det Image: Show det <	= MENU Package Summary	Package Designer Tables Editor		
Files and folders Name Type KeyPath	Files and folders Name Type KeyPath	Image: Section of Sources Name Type KeyPath Image: Sources Image: Sources Image: Sources Feature (Install, Visible and col Image: Sources Image: Sources Image: Sources Feature (Install, Visible and exp Image: Sources Image: Sources Image: Sources Feature (Install, Visible and exp Image: Sources Image: Sources Feature (Install, Visible and exp Image: Sources Image: Sources Image: Sources Feature (Install, Visible and col Image: Sources Image: Sources Image: Sources Feature (Install, Visible and col Image: Sources Image: Sources Image: Sources Feature (Install, Visible and col Image: Sources Image: Sources Image: Sources Feature (Install, Visible and col Image: Sources Image: Sources Image: Sources Feature (Install, Visible and col Image: Sources Image: Sources Image: Sources Feature (Install, Visible and col Image: Sources Image: Sources Image: Sources Feature (Install, Visible and col Image: Sources Image: Sources Image: Sources Image: Sources Image: Sources Image: Sources	Package resources	Features and components		Collapse all Show details
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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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• For saving your package, select Save from the MENU.



4.7.9.4 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.

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🛚 🖬 INI_config.ini1 Component 🗞 HKLM\SOFTWARE\[Manufacturer]\[ProductName]\[ProductVe	📇 Media settings	PACE_Complete (ID: PACE_Complete)	Feature (Install, Visible and exp	<u>^</u>
		INI_config.ini1	Component	HKLM\SOFTWARE\[Manufacturer]\[ProductName]\[ProductVe
		Add • Remove		

• Select Properties from the context menu of a feature, which you want to edit.

MENU Package Summary	Package Desi	gner Tables Editor			
🕶 🗁 Package resources	Features and	l components			🔠 🍽 💙 Collapse all Show details
Files and folders	Name			Туре	KeyPath
reference Shortcuts	🗄 🔚 Docu Gener	ator Core (ID: DocuGenerator)		Feature (Install, Visible and col	
🗞 Registry	Infopulse PA	B Infopulse PACE Suite (ID: MsiGenerator) Fe			
> Custom actions	Msi Editor (ID: MsiEditor)			Feature (Install, Visible and exp	
🐓 Drivers	PACE Suite (ID: ProductFeature) F			Feature (Install, Visible and col	
- 🗁 Package configuration	🖃 📑 Frame	New feature		Feature (Install, Visible and col	
Eestures and components	🗉 🔛 NE	New component		Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054
	E PACE S	Export to Merge Module		Feature (Install, Visible and col	
	🕀 🔛 EU	Description		Component	ProgramFilesFolder\PACE Suite\EULA_rtf (ID: EULA_rtf)
Opgrades Descention	🕀 🔛 rel	Properties	F2	Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release_
Properties	🕀 🔛 rel	Move to		Component	ProgramFilesFolder\PACE Suite\Release notes.xps (ID: release_
Summary information	🗄 🔛 USE	Remove	Del	Component	
📥 Media settings	PACE_Com	Go to Feature table		Feature (Install, Visible and exp	
		gama		Component	HKLM\SOFTWARE\[Manufacturer]\[ProductName]\[ProductVe
	Add 🔺	Remove			

• 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.



Flopenies			-	- 🗆 X
🔲 🔲 MSI table:	'Fea	ture'		
Title		ŀ	dentifier	
PACE Suite			ProductFeature	
Parent feature				
				Browse
Make this feature root				
Description				
Destination folder				
				Browse
Reset				
Behaviour and ap	opear	rance		
		Installation type		
nitial Installation state		Install feature companying	locally	~
initial Installation state	~	Install feature components		
Initial Installation state Install Display option	~	Advertise		
nitial Installation state Install Display option Visible and collapsed	~	Advertise Allow advertise		~
Initial Installation state Install Display option Visible and collapsed Disallow user to chang	 e feature 	Advertise Allow advertise		~

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

MSI Editor - PACE_v5.0.0.msi		
■ MENU Package Sumn	nary Package Designer	Tables Editor
New MSI	Ctrl + N	and the second second
New MST		Complexity estimation
Open	Ctrl + O	
Open recent	•	
Apply MST to MSI		
Remove MST from MSI		
Save	Ctrl + S	Files
Save as		Reg
Create MSP against original N	ASI	
Generate package report		Complexity level:
Deploy to SCCM		Medium Serv
Active scripting		ODE
Compare packages		
Edit	•	
Import and export	•	
Validation	•	
Help	•	
Quit	Alt + F4	Recalculate Export results to file





4.7.9.5 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.

Name Type KeyPath Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Image: Files and folders Feature (Install, Visible and col Image: Files and folders Image: Files Files and folders Feature (Install, Visible and col Image: Files and folders Image: Files Folder/PACE Suite/Prerequisites/NDP472/K84054531Web.exe Component Image: Files Folder/PACE Suite/EULArtf Image: Files Folder/PACE Suite/EULArtf ProgramFilesFolder/PACE Suite/EULArtf Image: Files Folder/PACE Suite/Release notes.pdf Image: Files Folder/PACE Suite/Release notes.pdf Image: Files Folder/PACE Suite/Release notes.pdf
Tipes and tolders Name Type KeyPath
Image: Shortcuts Image: Bocu Generator Core (ID: DocuGenerator) Feature (Install, Visible and col Image: Shortcuts Image: Bocu Generator Core (ID: DocuGenerator) Feature (Install, Visible and exp Image: Shortcuts Image: Bocu Generator Core (ID: MisiGenerator) Feature (Install, Visible and exp Image: Shortcuts Image: Bocu Generator Core (ID: MisiGenerator) Feature (Install, Visible and exp Image: Shortcuts Image: Bocu Generator Core (ID: MisiGenerator) Feature (Install, Visible and exp Image: Shortcuts Image: Bocu Generator Core (ID: PorcutFeature) Feature (Install, Visible and col Image: Shortcuts Image: Bocu Generator Core (ID: NDP472) Feature (Install, Visible and col Image: Bocu Generator Core (ID: NDP472) Feature (Install, Visible and col Image: Bocu Generator Core (ID: NDP472) Image: Bocu Generator Core (ID: NDP472) Image: Bocu Generator Core (ID: NDP472) Feature (Install, Visible and col Image: Bocu Generator Core (ID: NDP472) Image: Bocu Generator Core (ID: NDP472) Image: Bocu Generator Core (ID: NDP472) Image: Bocu Generator Core (ID: NDP472) Image: Bocu Generator Core (ID: NDP472) Image: Bocu Generator Core (ID: NDP472) Image: Bocu Generator Core (ID: NDP472) Image: Bocu Generator Core (ID: NDP472) Image: Bocu Generator Core (ID: NDP472) <td< th=""></td<>
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Image: Drivers Image: PACE Suite (ID: Product/Feature) Feature (Install, Visible and col Image: Package configuration Image: Package configuration Image: Package configuration Image: Package configuration Image: Package configuration Image: Package configuration Image: Package configuration Image: Package configuration Image: Package configuration Image: Package configuration Image: Package configuration Image: Package configuration Image: Pack Suite Control Image: Pack Suite Control Image: Pack Suite Control Image: Pack Suite Control Image: Package contexport Image: Package contexport Image: Pack Suite Control Image: Pack S
Package configuration Image: Framework 4.7.2 (ID: NDP472) Feature (Install, Visible and coll image: Program FilesFolder/PACE Suite/Prerequisites/NDP472-Kt Mark: Features and components Image: Program FilesFolder/PACE Suite/Prerequisites/NDP472-Kt Image: Program FilesFolder/PACE Suite/Prerequisites/NDP472-Kt ARP appearance Image: Program FilesFolder/PACE Suite/Prerequisites/NDP472-Kt Image: Program FilesFolder/PACE Suite/Prerequisites/NDP472-Kt Opgrades Image: Program FilesFolder/PACE Suite/EULArtf (ID: EULArtf) Image: Program FilesFolder/PACE Suite/EULArtf (ID: EULArtf) Opgrades Image: Program FilesFolder/PACE Suite/Release notes.pdf Image: Program FilesFolder/PACE Suite/Release notes.pdf (ID:
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Upgrades EULArtf Component ProgramFilesFolder/PACE Suite/EULArtf (D: EULArtf) Properties Image: State
Departure Departure
Component ProgramFilesFolder/PACE Suite/Release notes.xps (ID: rel
Suffriday Information B user_manual Component & HKCU/Software/[Manufacturer]/(ProductName)/Removed
Media settings
🖲 🔛 INI_config.ini1 Component 💑 HKLM\SOFTWARE\[Manufacturer]\[ProductName]\[Prod

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

MENU Package Summary Package Designer Tables Editor	MSI Editor - PACE_v5.0.0.msi				– 🗆 X
Package resources Features and components Files and folders Short cuts Short cuts Registry Cutsom actions Environment Program Features and components Features and components Properties Summary information Properties Summary information Media settings Name Yupe KeyPath Registry Cutsom actions Provers Package configuration Properties Properties Summary information Properties Summary information Properties Prelace (Install, Visible and exp <td< td=""><td>■ MENU Package Summary</td><td>Package Designer</td><td>ables Editor</td><td></td><td></td></td<>	■ MENU Package Summary	Package Designer	ables Editor		
Files and folders Name Type KeyPath Shortcuts B B Dou Generator Core (ID: DocuGenerator) Feature (Install, Visible and col Image: Component Core (ID: Miside Component Core (ID: Miside Component Core (ID: Miside Component	🕶 🗁 Package resources	Features and comp	onents		Collapse all Show details
Go to Component table	 Package resources Files and folders Shortcuts Registry Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information Media settings 	Features and comp	Onents DocuGenerator) MsiGenerator) eature) NDP472) Web reature New component Export to Merge Module Properties F2 Move to Remove Del Go to Component table	Type Feature (Install, Visible and col Feature (Install, Visible and exp Feature (Install, Visible and col Feature (Install, Visible and col Component Component Component Component Component Component Feature (Install, Visible and exp Component Feature (Install, Visible and exp Component	Image: Show details KeyPath Image: Show details KeyPath Image: Show details Image: Show details <t< td=""></t<>



• 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.

-				_		×
	General	Attributes	Relationships			
MSI ta	able: 'Comp	oonent'				
NDP462KB3151802	2Web.exe					
Component ID (GUID)						
{FBDF391A-FDAF-	5A95-9204-B2E	107ABA817}			New	
Conditions						
Folder and K	ov Doth					
Folder and K	eyPath					
Folder and K	eyPath r er\PACE Suite\Pre	erequisites (ID: PF	REREQUISITES)	E	Browse	
Folder and K Files destination folder ProgramFilesFolde NOTE Changing thi KeyPath type	eyPath r er\PACE Suite\Pre is folder leads to	erequisites(ID: PF o changing the Tar	REREQUISITES) get folder for all the	Compor	Browse nent files	5.
Folder and K Files destination folder ProgramFilesFolde NOTE Changing thi KeyPath type File	eyPath r er\PACE Suite\Pre is folder leads to	erequisites (ID: PF o changing the Tar	REREQUISITES)	compor	Browse nent files	s. V
Folder and K Files destination folder ProgramFilesFolde NOTE Changing thi KeyPath type File KeyPath	eyPath r er\PACE Suite\Pre is folder leads to	erequisites (ID: PF o changing the Tar	REREQUISITES) get folder for all the	compo	Browse	i. V
Folder and K Files destination folder ProgramFilesFolde NOTE Changing thi KeyPath type File KeyPath ProgramFilesFolde	eyPath r er\PACE Suite\Pre is folder leads to er\PACE Suite\Pre	erequisites (ID: PF changing the Tar erequisites\NDP46	REREQUISITES) get folder for all the 52-KB3151802-Web.ex		Browse nent files Browse	i. V



• 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 i	installation local	ly only				~
☐ 64-bit compone Allow this compo	nt ment to install re	esources to the 64	-bit locations.			
Shared DLL reference Increment the reference	rence count ference count in	the shared DLL re	gistry of the compo	onent's k	ey file.	
Permanent Do not remove this component from the system during 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 r	reinstall the com	ponent if its KeyPa	ath (file or registry) :	already	exists.	
Disable registry reflection Disable <u>Registry Reflection</u> on all existing and new registry keys affected by this component.						
Uninstall on supersedence (Windows Installer 4.5 and higher) Prevent leaving orphan components of the patch package on the computer.						
Shared (Windows Installer 4.5 and higher) Share this component, installed on the system, among other packages.						
		Save (Iancel			



• 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 relationsh component. Note th	nip between thi nat the compon	s component and lent could be linke	features, which will ir d with more than on	nstall thi e feature	s e.	
Linked features						
Framework 4.6.2 (II	D: NDP462)					
Add	Remove					
		Sauce -	Canad			

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

IENU Package Summary	Package Designer	Tables Editor		
w MSI	Ctrl + N	-		
w MST		C	omplexity es	stimation
en	Ctrl + O			
n recent	•			
ly MST to MSI				
nove MST from MSI				
/e	Ctrl + S			
/e as				
ate MSP against original MSI	,			
nerate package report			Com	nplexity level:
ploy to SCCM			N	/ledium
tive scripting				
mpare packages				
it	•			
port and export	•			
lidation	•			
lp.	•			
iit	Alt + F4			

4.7.9.6 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 Package Summary	Package Designer Tables Editor		×
Package resources Files and folders	Features and components	-	Collapse all Show details
 Files and folders Shortcuts Registry Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information Media settings 	Name	Type Feature (Install, Visible and col Feature (Install, Visible and exp Feature (Install, Visible and exp Feature (Install, Visible and col Component Feature (Install, Visible and col Component Component Component Component Feature (Install, Visible and exp Component	KeyPath Image: Comparison of the second se
	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 Upgrades Properties	PACE Suite user manual (ID: PaceManual)	Feature (Install, Visible and col	
	🕀 🔛 EULA.rtf	Component	ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
	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

	Package Designer Tables Editor			
✓ Package resources	Features and components		··· ·	Evendell Chow petails
Files and folders	Name	Туре	KeyPath	Hide removed items
C Shortcuts	Cmp04CA7A47B5488B87FAD013D7298B7A1D	Component	ProgramFilesFolde	F15
🗞 Registry	Cmp0E3A26096B7317162A8B752B2155241B	Component	ProgramFilesFolder	Clear filter RO
Custom actions				
🖋 Drivers				
✓ Package configuration				
Features and components				
ARP appearance				
😅 Upgrades				
Properties				
Summary information				
A Media settings				
	Add A Remove			

• 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	ables Editor						
🕶 🖿 Package resources	Features and comp	onents			88 b	T	Expand all	Show details
Files and folders	Name			Туре	KeyPath			
Shortcuts	🕑 cmp04CA7A47B5488B87	FAD013D7298B7A1D		Component	ProgramFilesFo	Ider\PAC	E Suite\MSI Editor\To	ols (ID: dir33F15
🗞 Registry	Cmp0E3A26096B731716	AL ()		Component	ProgramFilesFo	lder\PAC	E Suite\MSI Editor (II): 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						



•



4.7.9.7 Review Component Resources

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

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

 Package resources Files and folders Shortcuts Registry Custom actions Drivers 	Peatures and components Name		Туре	Collapse all Show deta
 Files and folders Shortcuts Registry Custom actions Drivers 	Name Bo Docu Generator Core (ID: DocuGenerator) Bo Infopulse PACE Suite (ID: MsiGenerator)		Туре	KayDath
Shortcuts Registry Custom actions Drivers	Docu Generator Core (ID: DocuGenerator) Infopulse PACE Suite (ID: MsiGenerator)			Keyraul
& Registry Custom actions Drivers	Infopulse PACE Suite (ID: MsiGenerator)		Feature (Install, Visible and col	
♦ Custom actions ✓ Drivers			Feature (Install, Visible and exp	
🗲 Drivers	Msi Editor (ID: MsiEditor)		Feature (Install, Visible and exp	
	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	NDP472KB4054531Web.exe		Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054
APP appearance	PACE Suite user manual (ID: PaceManual)		Feature (Install, Visible and col	
	🕀 🔛 EULA.rtf		Component	ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
Dreparties	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]\[ProductName]\RemoveFile\]
g media setungs				



• 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: Model 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.

FileKey Component_ FileName DirProperty InstallMode NISTALLDIR user_manual INSTALLDIR 3 InfopulseSh user_manual InfopulseProgramMenuFolder 2 APPVGENINSTALLDIR user_manual APPVGENINSTALLDIR 3	— C				Properties
KSI table: 'RemoveFile' Content FileKey Component_ FileName DirProperty InstallMode INSTALLDIR user_manual INSTALLDIR 3 InfopulseSh user_manual InfopulseProgramMenuFolder 2 APPVGENINSTALLDIR user_manual APPVGENINSTALLDIR 3					
FileKey Component_ FileName DirProperty InstallMode INSTALLDIR user_manual INSTALLDIR 3 InfopulseSh user_manual InfopulseProgramMenuFolder 2 APPVGENINSTALLDIR user_manual APPVGENINSTALLDIR 3			veFile'	e: 'Remo	MSI tabl
FileKey Component_ FileName DirProperty InstallMode INSTALLDIR user_manual INSTALLDIR 3 InfopulseSh user_manual InfopulseProgramMenuFolder 2 APPVGENINSTALLDIR user_manual APPVGENINSTALLDIR 3					ontent
INSTALLDIR user_manual INSTALLDIR 3 InfopulseSh user_manual InfopulseProgramMenuFolder 2 APPVGENINSTALLDIR user_manual APPVGENINSTALLDIR 3	nstallMode	DirProperty	FileName	Component_	FileKey
InfopulseSh user_manual InfopulseProgramMenuFolder 2 APPVGENINSTALLDIR user_manual APPVGENINSTALLDIR 3	3	INSTALLDIR		user_manual	INSTALLDIR
APPVGENINSTALLDIR user_manual APPVGENINSTALLDIR 3	2	InfopulseProgramMenuFolder		user_manual	InfopulseSh
	3	APPVGENINSTALLDIR		user_manual	APPVGENINSTALLDIR



4.7.10 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		-	X
■ MENU Package Summary	/ 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 Allow Uninstall Allow Uninstall Allow Uninstall Allow Addift Allow Addift		

• Click Edit to modify the ARP properties.





• 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	d/Remove Pro	grams (ARP) list		
Allow Uninstall				
Allow Modify				
Allow Repair				
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		



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







4.7.11 Upgrades

Choose a scenario that better suits your needs:

- Import Upgrades, described in section 4.7.11.1 Implement the upgrade of previous MSI packages just selecting them from the file system.
- Add Upgrade, described in section 4.7.11.2 Add the new upgrade manually.
- Edit Upgrade, described in section 4.7.11.3 Edit the upgrade settings.

4.7.11.1 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				- 🗆 ×
	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	
- E Package configuration	(9DEF97C4-E079-4D35-B6A8-2D3427FDA23F)	Upgrade	≥0.0.1	≤4.7.0
Eestures and components	(C9CE49CC-0BE5-48DE-9E77-D7A14F026033)	Upgrade	≥0.0.0.1	≤5.0.0.46
ARP appearance				
Properties				
Modia sottings				
in media settings				
	Add • Remove			





Select Add -> Import from MSI from the toolbox. • BMSI Editor - PACE_v5.0.0.msi

MSI Editor - PACE_v5.0.0.msi				- 🗆 ×
	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	[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	
- E 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
 ARP appearance Upgrades Properties Summary information Media settings 	Import from MSI Upgrade Add • Remove			

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.

🎯 Open					×
← → ~ ↑ 🕇	> This P	PC > Downloads	~ Ū	Search Downloads	م
Organize 🔻 New	w folder				• 🔳 🕜
🔹 Quick access		Name	Date modified	Туре	Size
Deskten		🕞 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 	* *				
	File <u>n</u> am	e: "PACE_v4.6.1.msi" "PACE_v4.7.0.msi"	~	Windows Installer In	stallations (\vee
				<u>O</u> pen	Cancel:



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



4.7.11.2 Add Upgrade

Add the new upgrade manually.

Go to the Package Designer -> Upgrades tab. •

MENU Package Designer Tables Editor Package resources 6 items € items E items E items	MSI Editor - PACE_v5.0.0.msi				- 0
Package resources Package resources 5 terms Shortcuts Shortcuts Shortcuts Registry C) Cuctom actions C) Diversi Package configuration Fastures and components Registry C) Upgrades C) Upgrade settings	MENU Package Summary	Package Designer Tables Editor			
Image: Files and folders Upgrade code Type Version from Version to	Package resources	Upgrades			6 items 💙 Show de
Shortcuts © (02C344E5-8ABF-4376-A01A-E1DA4F72FBEE) Upgrade ≥1.0.00 © Custom actions © (02C344E5-8ABF-4376-A01A-E1DA4F72FBEE) Detect ≥0.0.01 ≤5.0.0.167 © Custom actions © (93E47F01-EA91-4E0-9929-F26FE017FBC5) Upgrade ≥0.0.01 ≤5.0.0.167 © Invers © (90E97C4-E079-4D35-86A8-2D3427FDA23F) Detect ≥5.0.063 Package configuration © (90E97C4-E079-4D35-86A8-2D3427FDA23F) Upgrade ≥0.0.1 ≤4.7.0 © Hopgrades © Upgrades © 00.0.1 ≤5.0.0.46 ≤5.0.0.46 © Upgrades © Negrades © 00.0.1 ≤5.0.0.46 © Media settings Shommary information Shommary information Shommary information	Files and folders	Upgrade code	Туре	Version from	Version to
Registry C (02C354E5-8A8F-4376-A01A-E1DA4F72FBEE) Detect 20.0.1 ≤5.0.131 C Custom actions (954E7FD1-EA91-4EA6-9929-F26FED17FBC5) Upgrade 20.0.1 ≤5.0.0.63 Package configuration (90EF97C4-E079-4D35-86A8-2D3427FDA23F) Detect 25.0.0.63 ≤47.0 Package configuration (90EF97C4-E079-4D35-86A8-2D3427FDA23F) Upgrade 20.0.1 ≤4.7.0 Package configuration (90EF97C4-E079-4D35-86A8-2D3427FDA23F) Upgrade 20.0.1 ≤4.7.0 Package configuration (90EF97C4-E079-4D35-86A8-2D3427FDA23F) Upgrade 20.0.1 ≤4.7.0 Package configuration (90EF97C4-E079-4D35-86A8-2D3427FDA23F) Upgrade 20.0.1 ≤5.0.0.46 Papearance Upgrades 0.0.1 ≤5.0.0.46 ≤5.0.0.46 Properties Summary information Media settings - - - -	📌 Shortcuts	(02C354E5-8ABF-4376-A01A-E1DA4F72FBEE)	Upgrade	≥1.0.0.0	
 Custom actions Custom actions (95467FD1-EA91-4EA6-9929-F26FED17FBC5) Upgrade 20.0.1 25.0.63 (90EF97C4-E079-4D35-86A8-2D3427FDA23F) Detect 25.0.63 47.0 (90EF97C4-E079-4D35-86A8-2D3427FDA23F) Upgrade 20.0.1 44.7.0 (90EF97C4-E079-4D35-86A8-2D3427FDA23F) Upgrade (90EF97C4-E079-4D35-86A8-2D3427FDA23F) (90EF97C4-E079-4D35-86A8-2D3427FDA23F) Upgrade (90EF97C4-E079-4D35-86A8-2D3427FDA23F) Upgrade (90EF97C4-E079-4D35-86A8-2D3427FDA23F) Upgrade (90EF97C4-E079-4D35-86A8-2D3427FDA23F) (90EF97C4-E079-4D35-86A8-2D3427FDA23F) Upgrade (90EF97C4-E079-4D35-86A8-2D3427FDA23F) Upgrade (90EF97C4-E079-4D35-86A8-2D3427FDA23F) Upgrade (90EF97C4-E079-4D35-86A8-2D3427FDA23F) (90EF97C4-E079-4D35-86A8-2D3427FDA23F) (90EF97C4-E079-4D35-86A8-2D3427FDA23F) (90EF97C4-E079-4D35-86A8-2D3427FDA23F) (90EF97C4-E079-4D35-86A8-2D3427FDA23F) (90EF97C4-E079-4D35-86A8-2D3427FDA23F) (90EF97C4-E079-4D35-86A8-2D3427FDA23F) (90EF97C4-E079-4D35-86A8-2D3427FDA23F) (90EF97C4-E079-4D3-86A8-2D3427FDA23F) (90EF97C4-E079-4D3-86A8-2D3427FDA23F) (90EF97C4-E079-4D3-86A8-2D342FD444448-448-448-448-448-448-448-448-44	🗞 Registry	C (02C354E5-8ABF-4376-A01A-E1DA4F72FBEE)	Detect	≥0.0.0.1	≤5.0.0.131
 ✓ Drivers ✓ Package configuration ✓ Features and components ✓ ARP appearance ✓ Upgrades ✓ Properties ✓ Summary information ✓ Media settings 	Custom actions	(954E7FD1-EA91-4EA6-9929-F26FED17FBC5)	Upgrade	≥0.0.0.1	≤5.0.0.167
Package configuration ⊆ (9DEF97C4-E079-4D35-86A8-2D3427FDA23F) Upgrade ±0.0.1 ±4.7.0 ▲ ARP appearance C Upgrades ±0.0.1 ±5.0.0.46 ● Properties Summary information Media settings Head as settings	🐓 Drivers	(9DEF97C4-E079-4D35-B6A8-2D3427FDA23F)	Detect	≥5.0.0.63	
 Features and components ARP appearance Upgrades Summary information Media settings 	Package configuration	(9DEF97C4-E079-4D35-B6A8-2D3427FDA23F)	Upgrade	≥0.0.1	≤4.7.0
 ARP appearance Upgrades Properties Summary information Media settings 	Eastures and components	C9CE49CC-0BE5-4BDE-9E77-D7A14F026033}	Upgrade	≥0.0.0.1	≤5.0.0.46
	Properties Summary information Media settings				


• Select Add -> Upgrade from toolbox.

Misi Editor - PACE_V5.0.0.msi				
MENU Package Summary	Package Designer Tables Editor			
🕶 🗁 Package resources	Upgrades			6 items 💙 Show detail
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
Properties				
Summary Information				
📇 Media settings				
	Import from MSI			
	Upgrade			
	Add - Kemove			

• 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			- 0	×	
S MSI table: 'Ung	rade'				
Upgrade code	lauc				
				0	
Version from		Version to			
	0			•	
Including the specified version		$\hfill\square$ Including the specified v	ersion		
Туре					
Upgrade the package				~	
Languages				~	
Applies only to the specified lan	guages			~	
Migrate feature states					
Features to remove					
Action property					
UPGRADE				0	
Include to SecureCustomProperti	es				
□ Ignore the upgrade failure and	l continue inst	tallation			
	Save	Cancel			
	Save	Cancel			

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	

4.7.11.3 Edit Upgrade

Edit the upgrade settings.

• Go to the Package Designer -> Upgrades tab.

MSI Editor - PACE_v5.0.0.msi				- 🗆 X
■ MENU Package Summary	Package Designer Tables Editor			
🕶 🗁 Package resources	Upgrades		6	items 💙 Show details
Files and folders	Upgrade code	Туре	Version from	Version to
reference 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	(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-0BE5-48DE-9E77-D7A14F026033)	Upgrade	≥0.0.0.1	≤5.0.0.46
ARP appearance				
Properties				
Modia sottings				
integra 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						- 🗆 X
	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
Features and components	C9CE49CC-0BE5-4BE	Deservation	52	Upgrade	≥0.0.0.1	≤5.0.0.46
ARP appearance		Properties	F2			
		Remove	Dei			
Properties		Go to Upgrade table				
Summary information						
media settings						
	Add A R	emové				



• Update the necessary values such as upgrade code, range of versions, upgrade type, action property and the like. Afterwards, click **Save**.

Properties		_	×
a			
MSI table: 'Upgrade'			
Upgrade code			
{954E7FD1-EA91-4EA6-9929-F26FED17FBC5			
Version from	Version to		
0.0.0.1	5.0.0.167		
\blacksquare Including the specified version	Including the specified	version	
Туре			
Upgrade the package			~
Details Languages			
			\sim
Applies only to the specified languages			\sim
□ Migrate feature states			
Features to remove			
Action property			
MSIEDITORINSTALLED			
☑ Ignore the upgrade failure and continue in	stallation		
Save	Cancel		



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



Save

Edit

Help Quit



4.7.12 Properties

Choose a scenario that better suits your needs:

- Add Property, described in section 4.7.12.1 Add a new property to the package.
- Edit Property, described in section 4.7.12.2 • Edit a name and a value of the existing property.

4.7.12.1 Add Property

Add a new property to the package.

Go to the Package Designer -> Properties tab. •

MSI Editor - PACE_v5.0.0.msi			– 🗆 ×
	Package Designer Tables Editor		
🔹 🗁 Package resources	Properties		114 items 🟹
Files and folders	Name	Value	MSI table
📌 Shortcuts	BrowseProperty		Control
🗞 Registry	BrowseProperty		Control
Custom actions	BrowseProperty		Control
💉 Drivers	ALLUSERS	1	Property
Package configuration	P ARPINSTALLLOCATION	[INSTALLDIR]	CustomAction
	ARPNOMODIFY	1	Property
Features and components	ARPPRODUCTICON	ARP_ICON.ico	Property
ARP appearance	DefaultUIFont	WixUI_Font_Normal	Property
Upgrades	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
	Add Remove		





• Click Add, located in the toolbox.

BMSI Editor - PACE_v5.0.0.msi			- 🗆 ×
■ MENU Package Summary	Package Designer Tables Editor		
🕶 📴 Package resources	Properties		114 items 💙
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
Eastures and components	ARPNOMODIFY	1	Property
	ARPPRODUCTICON	ARP_ICON.ico	Property
	DefaultUIFont	WixUI_Font_Normal	Property
Upgrades	DocuGeneratorBuyNowUrl	http://pacesuite.com/purchase	Property
P 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
	P ErrorDialog	ErrorDig	Property
	Add Remove		

• Enter a property name, value and click Add.

Add property				Х
Name				
Test_property				
Value				
Test value				
	Add	Cancel		

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



4.7.12.2 Edit Property

Edit a name and value of the existing property.

• <u>Go to the Package Designer</u> -> 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	P ALLUSERS	1	Property
Package configuration	P ARPINSTALLLOCATION	[INSTALLDIR]	CustomAction
Facture and service and	P ARPNOMODIFY	1	Property
 reatures and components 	ARPPRODUCTICON	ARP_ICON.ico	Property
ARP appearance	DefaultUIFont	WixUI_Font_Normal	Property
Upgrades	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
	P DocuGeneratorZendeskUrl	https://infopulse.zendesk.com/api/v2	Property
	DOTNETTYPE	Manual	Property
	DOTNETTYPE		Control
	DOTNETTYPE	Manual	RadioButton
	DOTNETTYPE	Auto	RadioButton
	ErrorDialog	ErrorDlg	Property

١

• Select Edit from the context menu of a property, which you want to edit.

■ MENU Package Summary Package I ■ Package resources ■ Propertie ■ Files and folders ● Propertie ● Shortcuts ● BrowsePro ● Drivers ● BrowsePro ● Drivers ● ARPINOTAU ● Features and components ● ARP appearance ● Upgrades ● DocuGener ● Properties ● DocuGener ● Summary information ● DocuGener	Designer Tables Edit S aperty aperty aperty LLCC4 New property LLCC4 Remove aperty CFLCC6 Remove	F2 Del	Value 1 [INSTALLDIR] 1	114 items 5 MSI table Control Control Property CustomAction Property
Package resources Propertie Files and folders Shortcuts Registry Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information	ss peperty peperty LLLOCF New property LLCOF Edit LCTICC Remove perty	F2 Del	Value	114 items MSI table Control Control Control Property CustomAction Property
 Files and folders Shortcuts Registry Custom actions Drivers ARP appearance Upgrades Properties Summary information 	operty operty LLCC2 New property LLCC2 New property Edit JCTICC Remove opt	F2 Del	Value	MSI table Control Control Property CustomAction Property
 Shortcuts BrowsePro Custom actions Drivers ARPINSTAL ARP appearance Upgrades Properties DocuGener Drougener Drougener Drougener Drougener Drougener Drougener Drougener Drougener 	operty operty LLOCA New property DDFY Edit JCTICC Remove	F2 Del	1 [INSTALLDIR] 1	Control Control Control Property CustomAction Property
Registry Custom actions Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information	LLOCA New property LLOCA New property DDIFY Edit JCTICC Remove	F2 Del	1 [INSTALLDIR] 1	Control Control Property CustomAction Property
Custom actions Drivers Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information Summary information Custom actions Custom actions Properties Summary information	LLLOCA New property DDIFY Edit JCCTICC Remove	F2 Del	1 [INSTALLDIR] 1	Control Property CustomAction Property
Drivers Drivers Package configuration Features and components ARP appearance Upgrades Properties Summary information Pongeree	LLLOCE New property DDIFY Edit CCTICC Remove	F2 Del	1 [INSTALLDIR] 1	Property CustomAction Property
Package configuration Package configuration Package configuration ARPNONO ARPNONO ARPADDU ARPADU DefaultUlFc Upgrades Properties Summary information	DDIFY Edit JCTICC Remove	F2 Del	[INSTALLDIR] 1	CustomAction Property
ARP appearance Organization ARP appearance Organization ARP appearance Organization Properties Summary information Arpencould Arpe	DDIFY Edit JCTICC Remove	F2 Del	1	Property
Properties Summary information Properties Summary information	JCTICC Remove	Del		
AKP appearance O DefaultUlFc Upgrades Properties Summary information DouGener DouGener DouGener DouGener	ont		ARP_ICON.ico	Property
Upgrades DocuGener DocuGener DocuGener DocuGener DocuGener DocuGener DocuGener	one		WixUI_Font_Normal	Property
Properties DocuGener Summary information DocuGener	_{ratorBi} Go to Property t	able	http://pacesuite.com/purchase	Property
Summary information DocuGener	ratorEvaluationUrl		http://pacesuite.com/download/	Property
	ratorHelpPath		\PACE Suite user manual.xps	Property
- Media settings DocuGener	ratorHelpUrl		http://pacesuite.com/release/5.0.0/PACE-Suite-5.0.0-Getting-started.pdf	Property
DOCUGENE	ERATORKEYVALID		0	Property
DocuGener	ratorLicensePath		\EULA.rtf	Property
DocuGener	ratorProductWebsiteUrl		http://pacesuite.com/	Property
DocuGener	ratorSupportEmail		pace-support@infopulse.com	Property
DocuGener	ratorSupportPortalUrl		http://pacesuite.com/support	Property
DocuGener	ratorZendeskLogin		7CJt0+s24Qv2P2Pgywki1lihqZ72jGqhE5mllh6yEmA=	Property
DocuGener	ratorZendeskPwd		DDHJK72abQMynq+2ioK4XVSzMTyhr9m4TJNesmjs48mum6KlpLb8Cz+JA4qg6Xv1	Property
DocuGener	ratorZendeskUrl		https://infopulse.zendesk.com/api/v2	Property
DOTNETTY	PE		Manual	Property
DOTNETTY	PE			Control
DOTNETTY	PE		Manual	RadioButton
DOTNETTY	'PE		Auto	RadioButton
ErrorDialog	3		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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4.7.13 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	v 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 Opgrades	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 4.7.4.4

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 Privileges
300 (Requires Windows Installer 3.0 and ç $$	Elevated privileges can be required to ins \checkmark
ID and settings Package code {58FF1CA0-0525-43FB-96E6-08D9BA5F255A	} New
Image type	
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



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







4.7.14 Tables

Choose a scenario that better suits your needs:

- Add Tables, described in section 4.7.14.1 Add the standard MSI tables to the package.
- Drop Table, described in section 4.7.14.2
 Drop tables from the package controling which of linked resources also will be removed.
- Import Tables (IDT), described in section 4.7.14.3 Import standard or custom tables with or without content from the IDT files.

4.7.14.1 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_v5.0.0msi

E MENU	Package Sur	mmary	Package Designer Tables Edito	r					
Tables	*	App	/Assotiation						
Tables			Component	Compon	entid	Directory_	Attributes	Condition	
validation		Þ	AppvAssotiation	{0DBF1C8	7-52CF-44E0-B1B4-267741BBABE9}	TARGETDIR	0	INSTALLAPPVASSOTIATION	
aminexecuti	esequence		cmp0190D5B67C7DC2C5FD0170FEE49C528A	{C17C34B	2-BFAC-4934-915B-85A0A56FC2DD}	MSIGENERATORROOT	0	<null></null>	
dminUlSequ	Jence		cmp0194E3097F77CAB8A1909D06CAB9C445	{282E02E	3-4203-4E3C-8189-53E0D68CCD9B}	MSIEDITORROOT	0	<null></null>	
dvtExecuteS	sequence		cmp01E6309A9129F556BE87AC1E2C863933	{FBC5991	-4F1A-4281-A311-27365F27185C}	dirEFA2C0FFA64DFE12D8CE212B95E005C8	0	<null></null>	
opSearch			cmp021709B91F51CEA8D966EA361CBAC605	(DEA7932	8-A3B9-42A6-A7AD-B4883890B40D}	MSIEDITORROOT	0	<null></null>	
nary			cmp02C53EC8E8B056356EBBC7BF7E0A6804	(F41CF8D	1-2DA0-4F52-877B-29B4F03B360E}	MSIEDITORROOT	0	<null></null>	
heckBox			cmp03C135474D5E45B896EBAB0AE714B7D0	{E76E43B	-CAE7-45FB-AFED-C4EB5D97BF6E}	MSIEDITORROOT	0	<null></null>	
omponent			1mp03CF47FBCA227E610AE74C151CF10DC3	{4F992149	-F97F-4FC7-ABD5-7F04F9D4A798}	MSIEDITORROOT	0	<null></null>	
ontrol	Add tables		mp048AC21FB63D4133A445EA42DC20B0D9	{F0533FD	5-4E59-43FE-937D-2D8A03F0D88A}	MSIEDITORROOT	0	<null></null>	
ontrolCondi	Drop table		mp04CA7A47B5488B87FAD013D7298B7A1D	{F49F802	-C415-4C04-BB1F-5DC97CD77EEB}	dir33F15391917AF44495354A87548BF33E	0	<null></null>	
ntrolEvent			mp04E8832C7517C8084E2FED1A6736D42F	{B7C0144	-C0B1-4FBF-8E72-C051A364EBAD}	MSIEDITORROOT	0	<null></null>	
stomAction	import tables		mp066B8A5A7452DE33957A30532F659B23	{A538878	C-B279-49C1-9192-D239E059E0CE}	MSIGENERATORROOT	0	<null></null>	
alog	Online help (1	MSDN)	mp09F7AC2A2FF723969F8012AC52E69B03	{947D580	5-3623-4806-B21B-388B13672BFD}	MSIEDITORROOT	0	<null></null>	
rectory			cmp0AD5B5B486F0407826081628CD86768A	{F4983A2	4-03A5-4CCC-9F9E-C813058DA477}	dirC0916089BBF98BB0BADF683C5CCF0B62	0	<null></null>	
ror			cmp0B7757366D7F60B8BF5DB57F5190E030	{71569AB	A-7422-4C58-9E48-4AAC16216ADA}	dirD0D367A0F19DB5E0F041F02F2E2977E5	0	<null></null>	
entMappin	g _		cmp0E3A26096B7317162A8B752B2155241B	{8E1AC0D	D-8A66-4A4D-A79E-A1F980E01782}	MSIEDITORROOT	0	<null></null>	
	- · · ·	4							
Hide em Row re	pty tables e ferences ICE	☑ Ena	able linked items tracking for delete/updat on Undo/Redo history	e operatio	ns			Selected rows: 1 / Total rows	
State	Table		Row Key		Description				
\rightarrow	Directory		TARGETDIR		Component.Directory_ => Directory.E	Directory			
←	 FeatureComponents MsiGenerator.AppvAssotiation 				Component.Component => FeatureC	omponents.Component_			
 Registry reg0D34210A9953A9AB3ADDD09F9B4613C6 				Component.Component => Registry.	Component_				
←	Registry		reg77A2B1EB13EC0E02D7EA99B1B19B6E62	5E62 Component.Component => Registry:Component_					
←	Registry		reg8DFDD24915DC88DBA192DD16686CD242		Component.Component => Registry.Component_				
← Reaistry rea9CAF18686DDBB118206EBAD2DE53FC7D Component_Component => Reaistry_Component => reaistry_Component									

• 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	-			-
	S	ave Can	ncel	



 \Box \times

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



4.7.14.2 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							2:	A		
	Validation				Component		Lomponentid	Directory_	Attributes	Condition	
A	dminExecu	IteSequence		•	AppvAssotiation	{	DDBF1C87-52CF-44E0-B1B4-267741BBABE9	TARGETDIR	0	INSTALLAPPVASSOT	IOITAI
A	dminUlSec	uence			cmp0190D5B67C7DC2C5FD0	0170FEE49C528A {	C17C34B2-BFAC-4934-915B-85A0A56FC2D	D} MSIGENERATORROOT	0	<null></null>	
A	dvtExecute	Sequence			cmp0194E3097F77CAB8A190	09D06CAB9C445 {	282E02EB-4203-4E3C-8189-53E0D68CCD9	3} MSIEDITORROOT	0	<null></null>	
A	ppSearch				cmpU1Eb3U9A9129F556BE87	AC1E2C863933 {	-BC59911-4F1A-4281-A311-27365F27185C}	dirEFA2CUFFA64DFE12D8CE212B95E005C8	0	<null></null>	
В	linary				cmp021/09891F51CEA8D966	EA361CBAC605 {	DEA/9328-A389-42A6-A7AD-8488389084		0	<null></null>	
0	: heckBox				cmpU2C53EC8E88056356E8	BC/BF/EUA6804 {	-41C+804-20A0-4+52-8778-2984F03B360E		0	<null></null>	
_	Iomponent	1	-		cmpU3C1354/4D5E45B896E	DADUAE/14B/D0 {	1/0E436/-CAE/-45F8-AFEU-C4E85U9/8F6		0	<null></null>	
	Control		_		cmp03CF4/FBCA22/E010AE	74CISICFIUDC3 {	+F332149-F37F-4FC7-ABD5-7F04F3D4A738		0	<nui></nui>	
	ontrolCon	dition			cmp046AC2 (FB05D4155A44)	013D7208B7A1D	-0555FD5-4E55-45FE-957D-2D0A05F0D00		0	souls	
	OntrolEver	it			cmp04E8832C7517C808/F2E	FED146736D42E	87C01448-C0B1-4ERE-8E72-C051A364ERAD	MSIEDITORROOT	0	couls	
	lustomActi	on			cmp066688A5A7452DE33957	A30532E659B23	4538878C-B279-49C1-9192-D239E059E0CE	MSIGENERATORROOT	0	<nul></nul>	
5	Dialog				cmp09F7AC2A2FF723969F80	012AC52E69B03	947D58C5-3623-4806-B21B-388B13672BFD	MSIEDITORROOT	0	<null></null>	
D	Directory				cmp0AD5B5B486F04078260	81628CD86768A	F4983A24-03A5-4CCC-9F9E-C813058DA47	7} dirC0916089BBF98BB0BADF683C5CCF0B62	0	<null></null>	
	rror				cmp0B7757366D7F60B8BF50	DB57F5190E030 {	71569ABA-7422-4C58-9E48-4AAC16216AD	A} dirD0D367A0F19DB5E0F041F02F2E2977E5	0	<null></null>	
5	ventMappi	na			cmp0E3A26096B7317162A8B	3752B2155241B {	BE1AC0DD-8A66-4A4D-A79E-A1F980E0178	2} MSIEDITORROOT	0	<null></null>	
j			*		· · · · · · · · · · · · · · · · · · ·	·			-		
1	Hide en	npty tables references	ICE	✓ Ena	able linked items tracking fo	or delete/update c	operations			Selected rows: 1 / Tot	al rov
	State	Table			Row Key		Description				
ŀ	\rightarrow	Directory			TARGETDIR		Component.Directory_ => Directo	ry.Directory			
	←	FeatureComponents MsiGenerator.AppvAssotiation		Component.Component => Featu	reComponents.Component_						
	←	Registry reg0D34210A9953A9AB3ADDD09F9B4613C6		Component.Component => Regist	ry.Component_						
	←	Registry	.gistry reg77A2B1EB13EC0E02D7EA99B1B1986E62 Camponent => Registry.Component_								
	←	Registry			reg8DFDD24915DC8BDBA1920	DD16686CD242	Component.Component => Regist	ry.Component_			
	6	Registry			1909CAE18686DDBB118206EBA		Component Component => Pegirt	ry 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.

MSI Editor	r - PACE_v5.0.0.msi						- 🗆	×
	Package Su	imman/	Package Designer Tables Editor					
	Tuckage be	, and the second s	Tubles Earles					
Tables	A	App	Assotiation					
Tables								
Validation			Component	ComponentId	Directory_	Attributes	Condition	
AdminExecut	teSequence	•	AppvAssotiation	{0DBF1C87-52CF-44E0-B1B4-267741BBABE9}	TARGETDIR	0	INSTALLAPPVASSOTIATION	1 1
AdminUlSeq	uence		cmp0190D5B67C7DC2C5FD0170FEE49C528A	{C17C34B2-BFAC-4934-915B-85A0A56FC2DD}	MSIGENERATORROOT	0	<null></null>	-
AdutEvenute	Sequence		cmp0194E3097F77CAB8A1909D06CAB9C445	{282E02EB-4203-4E3C-8189-53E0D68CCD9B}	MSIEDITORROOT	0	<null></null>	
AppSearch			cmp01E6309A9129F556BE87AC1E2C863933	{FBC59911-4F1A-4281-A311-27365F27185C}	dirEFA2C0FFA64DFE12D8CE212B95E005C8	0	<null></null>	
Rippscarch			cmp021709B91F51CEA8D966EA361CBAC605	{DEA79328-A3B9-42A6-A7AD-B4883890B40D}	MSIEDITORROOT	0	<null></null>	
ChaolyRev	_		cmp02C53EC8E8B056356EBBC7BF7E0A6804	{F41CF8D4-2DA0-4F52-877B-29B4F03B360E}	MSIEDITORROOT	0	<null></null>	
Checkbox			cmp03C135474D5E45B896EBAB0AE714B7D0	{E76E43B7-CAE7-45FB-AFED-C4EB5D97BF6E}	MSIEDITORROOT	0	<null></null>	
Component			1mp03CF47FBCA227E610AE74C151CF10DC3	{4F992149-F97F-4FC7-ABD5-7F04F9D4A798}	MSIEDITORROOT	0	<null></null>	
Control	Add tables		mp048AC21FB63D4133A445EA42DC20B0D9	{F0533FD5-4E59-43FE-937D-2D8A03F0D88A}	MSIEDITORROOT	0	<null></null>	
ControlCond	ControlCondif Drop table		mp04CA7A47B5488B87FAD013D7298B7A1D	{F49F8023-C415-4C04-BB1F-5DC97CD77EEB}	dir33F15391917AF44495354A87548BF33E	0	<null></null>	
ControlEvent	ControlEvent Import tables		mp04E8832C7517C8084E2FED1A6736D42F	{B7C01448-C0B1-4FBF-8E72-C051A364EBAD}	MSIEDITORROOT	0	<null></null>	
CustomActio	r	0	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>	
EventMappin	ng 🗸		cmp0E3A26096B7317162A8B752B2155241B	{8E1AC0DD-8A66-4A4D-A79E-A1F980E01782}	MSIEDITORROOT	0	<null></null>	-
4		4				-		
Hide em	eferences	☑ Ena	able linked items tracking for delete/update ion Undo/Redo history	operations			Selected rows: 1 / Total rows	:: 425
State	Table		Row Key	Description				
▶ →	Directory		TARGETDIR	Component.Directory_ => Directory.E	Directory			-
+	FeatureComponent	ts	MsiGenerator.AppvAssotiation	Component.Component => FeatureC	omponents.Component_			-
←	← Registry reg0D34210A9953A9AB3ADDD09F9B4613C6 Component => Registry.Component_							
←	← Registry reg77A2B1EB13EC0E02D7EA99B181986E62 Component_Component => Registry.Component_							
(Registry		reg8DFDD24915DC8BDBA192DD16686CD242	Component.Component => Registry.	Component_			
←	← Reaistry rea9CAF18686DDB8118206E8AD2DE53FC7D Component => Reaistry.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	eted
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			
			Ŧ
OK Cancel			



For saving your package, select Save from the MENU.



4.7.14.3 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

	Package Su	mmary	Package Designer	Tables Editor						
Tables		Appv	Assotiation							
Tables										
Validation			Component		Compon	entld	[Directory_	Attributes	Condition
AdminExec	uteSequence	Þ	AppvAssotiation		{0DBF1C8	7-52CF-44E0-B1B4-267741BBABE	9} T	ARGETDIR	0	INSTALLAPPVASSOTIATION *
AdminUISe	quence		cmp0190D5B67C7DC2C5FD0	0170FEE49C528A	{C17C34E	2-BFAC-4934-915B-85A0A56FC2	DD} N	ISIGENERATORROOT	0	<null></null>
AdutEvery	opence of sources		cmp0194E3097F77CAB8A190	9D06CAB9C445	{282E02E	B-4203-4E3C-8189-53E0D68CCD	9B} N	ISIEDITORROOT	0	<null></null>
Advitiketu	esequence		cmp01E6309A9129F556BE87/	AC1E2C863933	{FBC5991	1-4F1A-4281-A311-27365F27185C}	} d	lirEFA2C0FFA64DFE12D8CE212B95E005C8	0	<null></null>
Appsearch			cmp021709B91F51CEA8D966	EA361CBAC605	{DEA7933	8-A3B9-42A6-A7AD-B4883890B	40D} N	ISIEDITORROOT	0	<null></null>
Binary			cmp02C53EC8E8B056356EB8	BC7BF7E0A6804	{F41CF8D	4-2DA0-4F52-877B-29B4F03B360	OE} N	ISIEDITORROOT	0	<null></null>
CheckBox			cmp03C135474D5E45B896EE	3AB0AE714B7D0	{E76E43B	7-CAE7-45FB-AFED-C4EB5D97BF	F6E} N	ISIEDITORROOT	0	<null></null>
Compone	1t		mp03CF47FBCA227E610AE7	74C151CF10DC3	{4F99214	9-F97F-4FC7-ABD5-7F04F9D4A79	98} N	ISIEDITORROOT	0	<null></null>
Control	Add tables		mp048AC21FB63D4133A445	5EA42DC20B0D9	{F0533FD	5-4E59-43FE-937D-2D8A03F0D8	88A} N	ISIEDITORROOT	0	<null></null>
ControlCor	dif Drop table		mp04CA7A47B5488B87FAD	013D7298B7A1D	{F49F802	3-C415-4C04-BB1F-5DC97CD77E	EB} d	lir33F15391917AF44495354A87548BF33E	0	<null></null>
ControlEve	nt		mp04E8832C7517C8084E2F	ED1A6736D42F	{B7C0144	8-C0B1-4FBF-8E72-C051A364EBA	D} N	ISIEDITORROOT	0	<null></null>
CustomAc	ior import tables	5	mp066B8A5A7452DE33957	A30532F659B23	{A538878	C-B279-49C1-9192-D239E059E00	CE} N	ISIGENERATORROOT	0	<null></null>
Dialog	Online help (MSDN)	mp09F7AC2A2FF723969F80	12AC52E69B03	{947D580	5-3623-4806-B21B-388B13672BF	D} N	ISIEDITORROOT	0	<null></null>
Directory			cmp0AD5B5B486F04078260	81628CD86768A	{F4983A2	4-03A5-4CCC-9F9E-C813058DA4	477} d	lirC0916089BBF98BB0BADF683C5CCF0B62	0	<null></null>
Error			cmp0B7757366D7F60B8BF5E	DB57F5190E030	{71569AB	A-7422-4C58-9E48-4AAC16216A	DA} d	irD0D367A0F19DB5E0F041F02F2E2977E5	0	<null></null>
EventMap	ina		cmp0E3A26096B7317162A8B	752B2155241B	{8E1AC0E	D-8A66-4A4D-A79E-A1F980E017	782} N	ISIEDITORROOT	0	<null></null>
4		4							-	
✓ Hide e Row	mpty tables references ICI	☑ Ena E validatio	ble linked items tracking fo	or delete/update	operatio	ins				Selected rows: 1 / Total rows: 425
State	Table		Row Key			Description				
▶ →	Directory		TARGETDIR			Component.Directory_ => Direct	tory.Dir	rectory		
←	FeatureComponents MsiGeneratorAppvAssotiation Component => FeatureComponents.Component_									
÷	Registry		reg0D34210A9953A9AB3ADDI	D09F9B4613C6		Component.Component => Registry.Component_				
(Registry		reg77A2B1EB13EC0E02D7EA99	B1B19B6E62	Component.Component => Registry.Component_					
←	Registry		reg8DFDD24915DC8BDBA192D	D16686CD242	Component.Component => Registry.Component					
←	Reaistry		- rea9CAF18686DDBB118206EBA	D2DE53FC7D	Component Component => Registry Component				Ψ	

• Choose tables (*.idt), which you want to import and click Open.

Open						\times
	> This	PC > Downloads	ٽ ~	Search Downloads		Q
Organize 🔻 New	w folder			==	•	?
- Ouick access		Name	Date modified	Туре	Size	
Desktop	*	FileReplaceText.idt	12/11/2018 11:53	IDT File		1 KB
🖶 Downloads	*					
Documents	*					
Pictures	*					
OneDrive						
💻 This PC						
Petwork 🎒						
•4 Homegroup						
	File <u>n</u> am	e: FileReplaceText.idt	~	Exported Windows	Installer Da	at ~
		L		<u>O</u> pen	Cance	



 \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**.

Import tables	_		×
The following tables are a current MSI database:	lready exi	st in the	
✓ FileReplaceText			
Replace selected		Cancel	

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





4.7.15 Merge Modules

Choose a scenario that better suits your needs:

- Create MSM, described in section 4.7.15.1 Export component(s) from the opened MSI package to the new merge module (MSM).
- Import MSM to Package, described in section 4.7.15.2 Import merge modules (MSM) from the file system to the opened MSI package to deliver the shared resources properly.

4.7.15.1 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.

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	B. 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	🕀 🔛 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	KCU\Software\[Manufacturer]\[ProductName]\RemoveFile\]		
📥 Media settings	PACE_Complete (ID: PACE_Complete)	Feature (Install, Visible and ex;			
	🗉 🔛 INI_config.ini1	Component	HKLM\SOFTWARE\[Manufacturer]\[ProductName]\[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.

BI 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
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	🖃 📑 Framew	ork 4.7.2 (ID: NDP472)		Feature (Install, Visible and col	
Eeatures and components	🕀 🖬 NDI	P472KB4054531Web.exe		Component	ProgramFilesFolder\PACE Suite\Prerequisites\NDP472-KB4054
ARP appearance	PACE 1	New feature		Feature (Install, Visible and col	
	🕀 🔛 EU	New component	ponent		ProgramFilesFolder\PACE Suite\EULA.rtf (ID: EULA.rtf)
	Export to Merge Module			Component	ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release_
	🕀 🔛 rel	Properties F2		Component	ProgramFilesFolder\PACE Suite\Release notes.xps (ID: release_
Summary Information	🕀 🖬 us	Properties P2		Component	HKCU\Software\[Manufacturer]\[ProductName]\RemoveFile\\
Media settings		Nove to			
		Remove Dei			
		Go to Component table			
	Add 🔺	Remove			

• Review and modify a list of components, selected for export, and click Next.

Export to Merge Module			_		Х
	• •				
	Components Setting	S			
Components to export					
Component		Feature			
NDP472KB4054531Web.exe		Framework 4.7.2 (ID: NDP472)			
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

e Module - C X Components Settings	ick Finish.	
e Module - C × Components Settings	Export to Merge Module Components Settings Settings Module ID fa3e75e2_e2af_4e6b_a202_19140518b44d resion 1.0.0 anguage 0 Replace the exported components with the created Merge Module	
4e6b_a202_19140518b44d v xported components with the created Merge Module	Settings Module ID fa3e75e2_e2af_4e6b_a202_19140518b44d fersion 10.0.0 anguage 0 □ Replace the exported components with the created Merge Module	
Components Settings _4e6b_a202_19140518b44d 	Components Settings Andule ID	
_4e6b_a202_19140518b44d xported components with the created Merge Module	Settings Module ID fa3e75e2_e2af_4e6b_a202_19140518b44d fersion 1.0.0 anguage 0 Replace the exported components with the created Merge Module	
4e6b_a202_19140518b44d xported components with the created Merge Module	Nodule ID fa3e75e2_e2af_4e6b_a202_19140518b44d Aersion 1.0.0 anguage 0 Replace the exported components with the created Merge Module	
4e6b_a202_19140518b44d v	fa3e75e2_e2af_4e6b_a202_19140518b44d Version 1.0.0 Language 0 Replace the exported components with the created Merge Module	
×ported components with the created Merge Module	Version 1.0.0 Language 0 Replace the exported components with the created Merge Module	
×ported components with the created Merge Module	1.0.0 Language 0 Replace the exported components with the created Merge Module	
×ported components with the created Merge Module	Replace the exported components with the created Merge Module	
× exported components with the created Merge Module	Replace the exported components with the created Merge Module	
exported components with the created Merge Module	Replace the exported components with the created Merge Module	~
		~
	K Back Finish C	ancel

Enter a file name, select a destination location and click Save. •

Save Msm				×
	> This PC > Downloads	√ Ū	Search Downloads	م
Organize 🔻 Ne	ew folder			:== • ?
 Quick access Desktop Downloads 	Name	Date modified No items match your search.	Туре	Size
Documents Pictures OneDrive This PC Network	*			
• 4 Homegroup	v <			>
File <u>n</u> ame:				~
Save as <u>t</u> ype:	Windows Installer Merge Module (*.msm)			~
∧ Hide Folders			<u>S</u> ave	Cancel





4.7.15.2 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 >	Cance	

• 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				×	(
	> This	s PC > Downloads	ٽ ~	Search Downloads	Q	
Organize 🔻 Ne	ew folder	r		- = = - = =	- 🔳 🕐	
- 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	(*.msm) ~ Cancel	

• Click Next to select the import settings.

Import mer	ge modules					\times
		Select Set modules	tings			
Select M	erge Modules to Import					
Name			Version	Language		
comdlg32.ocx	BD8D7F3C_DD83_4C72_A623_4C30BD84B8	7D	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 - PACI	E_v5.0.0.msi							- 0	×
	ackage Summary	Package Designer Tabl	es Editor						
Tables	^ comd	lg32.ocx.BD8D7F3C_DD83_4C72	_A623_4C30BI	D84B87D					
_Columns						-			
Streams		Component	Con	nponentid		Directory	Attributes	Condition	_
_Tables	► +	comdlg32.ocx.BD8D7F3C_DD83_4C	72_A623 {BD8	D7F3C-DD83-4C72-A623-4C30B	D84B8	SystemFolder.BD8D7F3C_DD83_4C72_A6	24	<null></null>	^
_Validation		AppvAssotiation	{ODE	F1C87-52CF-44E0-B1B4-267741BE	BABE9}	TARGETDIR	0	INSTALLAPPVASSOTIATIC	2N
AdminExecuteSequer	nce	cmp0190D5B67C7DC2C5FD0170FEE4	19C528A {2E9	850F9-D8ED-45DB-AC78-CBE04E	E60789}	MSIGENERATORROOT	0	<null></null>	
AdminUlSequence		cmp0194E3097F77CAB8A1909D06CA	AB9C445 {A85	83182-E1E5-4F99-8D80-FD9671B4	490BE}	MSIEDITORROOT	0	<null></null>	
AdvtExecuteSequenc	e	cmp01E6309A9129F556BE87AC1E2C	363933 {2BD	53B5D-F209-43B5-8C48-9F4DB8	AOECE9}	dirEFA2C0FFA64DFE12D8CE212B95E005C8	0	<null></null>	
AppSearch	-	cmp021709B91F51CEA8D966EA361C	BAC605 {7D5	53E36-5D7B-4752-8733-FD81612	541B5}	MSIEDITORROOT	0	<null></null>	
Rippocarch		cmp02C53EC8E8B056356EBBC7BF7	EOA6804 {4F9	23899-9866-4DF6-8C1D-B1FD5D5	50DF5E}	MSIEDITORROOT	0	<null></null>	
ChackRow		cmp03C135474D5E45B896EBAB0AE	714B7D0 {DED	70ACA-8CF7-4E28-B1C2-656984	E9B056}	MSIEDITORROOT	0	<null></null>	
Checkbox		cmp03CF47FBCA227E610AE74C151C	F10DC3 {7D6	375D2-8AE4-4231-937C-181645E	02EA7}	MSIEDITORROOT	0	<null></null>	
Class		cmp048AC21FB63D4133A445EA42D	C20B0D9 {DCE	B72F7-89FF-44C1-9F7D-267CB3F	-6A4B5}	MSIEDITORROOT	0	<null></null>	
Component		cmp04CA7A47B5488B87FAD013D72	9887A1D {6FA	BF1FC-5E4A-4EEA-B1E9-2D34755	5B20D}	dir33F15391917AF44495354A87548BF33E	0	<null></null>	
Control		cmp04E8832C7517C8084E2FED1A67	36D42F {B59	8BDAB-FCC3-41DA-BE49-5AE6B8	3CB356B}	MSIEDITORROOT	0	<null></null>	
ControlCondition		cmp06688A5A7452DE33957A30532	F659B23 {A4A	B500A-3166-4F2A-88AF-94EF5D	3EF2F4}	MSIGENERATORROOT	0	<null></null>	
ControlEvent		cmp09F7AC2A2FF723969F8012AC52	E69B03 {220	14BB5-F81B-435C-9EA6-D19AED5	5B020A}	MSIEDITORROOT	0	<null></null>	
CustomAction		cmp0AD5B5B486F0407826081628CI	086768A {75F	81F51-1EDF-4D4D-A414-B1FF4D44	458D3}	dirC0916089BBF98BB0BADF683C5CCF0B62	0	<null></null>	
Dialog	-	cmp0B7757366D7F60B8BF5DB57F51	90E030 {076	8953F-4154-48CD-BFCB-01C9CD/	AF6B51}	dirD0D367A0F19DB5E0F041F02F2E2977E5	0	<null></null>	-
4	+ 4						-		- F
Hide empty tab	oles 🗹 Enal	ble linked items tracking for delet	e/update ope	rations				Selected rows: 1 / Total n	ows: 410
State Table		Row Key		Description					
► → Directo	bry	SystemFolder.BD8D7F3C_DD83_4C72_	A623_4C30BD84	B87 Component.Directory_ => D	Directory.E	Directory			
→ File		comdlg32.ocx.BD8D7F3C_DD83_4C72	_A623_4C30BD8	488' Component.KeyPath => File.	File				
← Class		(3C4F3BE3-47EB-101B-A3C9-08002B2	- 49FB}.InprocSer	ver3 Component.Component =>	Class.Co	mponent_			
← Class		3C4F3BE5-47EB-101B-A3C9-08002B2	49FB}.InprocSer	ver3 Component.Component =>	Class.Co	mponent			
← Class		(3C4F3BE7-47EB-101B-A3C9-08002B2)	49FB}.InprocSer	ver3 Component.Component =>	Class.Co	mponent			
← Class		(7629CFA2-3FE5-101B-A3C9-08002B2)	49FB}.InprocSer	ver3 Component.Component =>	Class.Co	mponent			

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





4.8 Edit Project

Choose a scenario that better suits your needs:

- For managing File and Folders see section 4.8.2 Exclude/include captured files, add new folders, files.
- For managing **Registry** see section 4.8.3 Exclude/include captured registry entries, import and export registry.
- For managing Services see section 4.8.4 Exclude/include captured services and manage their details.
- For managing Environment Variables see section 4.8.5 Manage captured environment variables, manage their details, create new ones.
- For managing MSI Settings see section 4.8.6
 Select the MSI specific settings for creting the MSI packages.
- For managing MSIX/APPX Settings see section 4.8.7 Select the MSIX/APPX specific settings for creting the MSIX/APPX packages.
- For managing APPV Settings see section 4.8.8 Select the APPV specific settings for creting APPV packages.
- For managing THINAPP Settings see section 4.8.9 Select the THINAPP specific settings for creting THINAPP packages.

4.8.1 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

i Open						~
← → ~ ↑	« M	Generator > Packa	ges > PKG-190207-10081	4 ∨ Ċ Se	arch PKG-190207-10081	4 , 0
Organize 🔻 Ne	ew folde	er				•
🖈 Quick access		Name	^	Date modified	Туре	Size
Desktop	*	App-V		2/15/2019 2:23 PM 2/12/2019 3:38 PM	File folder File folder	
Documents	*	PKG-190207-10	0814_files	2/12/2019 4:02 PM 2/12/2019 4:02 PM	File folder File folder	
Pictures OneDrive This PC Network	*	@ PKG-190207-10	0814.mgp	2/15/2019 2:43 PM	MSI Generator Pro.	793
• 4 Homegroup						
	File <u>n</u> a	ame: PKG-190207-100)814.mgp	~ P	roject files (*.mgp) <u>O</u> pen C	ancel



4.8.2 File and Folders

Choose a scenario that better suits your needs:

- Exclude File/Folder, described in section 4.8.2.1 Exclude the unnecessary files and folders from the project.
- Include Excluded File/Folder, described in section 4.8.2.2 Include the necessary resources, previously excluded from the project.
- Add System Folder, described in section 4.8.2.3 Add a system (standard) folder from the list.
- Add Subfolder, described in section 4.8.2.4 Add a subfolder (user-defined folder).
- Import Files and COM, described in section 4.8.2.5 Import files from the file system to the project.
- Move File, Folder, described in section 4.8.2.6 Move a file or a folder from one folder to another.
- Edit File Properties, described in section 4.8.2.7 Edit a name, installation folder and permissions (used for MSI only) of the file.
- Edit Folder Properties, described in section 4.8.2.8 Edit a name, parent folder and permissions (used for MSI only) of the folder.
- Delete File, Folder, described in section 4.8.2.9 Delete a file or a folder from the project and project folder on the file system.







4.8.2.1 Exclude File/Folder

Exclude the unnecessary files and folders from the project.

• Go to the Files tab.

me	Type	Size	State
0	Folder		Changed
Program Files (v86)	Folder		Changed
Mozilla Firefox	Folder		Added
Mozilla Maintenance Service	Folder		Added
	Folder		Added
maintenanceservice.exe	FXF	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
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.

Edit package - PKG-190430-144511.mgp					- 🗆	\times
≡ MENU Package Files S	Shortcuts\Apps Registry System	n resources				
Files and folders			Include	d: 111 files (158,8 MB)	Collapse a	ill
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	Nove to loider		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	A T T T T T T T T T T T T T T T T T T T		Folder		Changed	
H 🗋 Windows Defender			Folder		Changed	
			Folder		Changed	
Windows			Folder		Changed	
appcompat			Folder		Changed	
Prefetch			Folder		Changed	
⊞ System32			Folder		Changed	
⊞ □ ∓emp			Folder		Changed	
Add Exclude						

4.8.2.2 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 a
ame	Туре	Size	State
a C:	Folder		Changed
Program Files (x86)	Folder		Changed
🗉 🔚 Mozilla Firefox	Folder		Added
🖃 📗 Mozilla Maintenance Service	Folder		Added
🕀 🛅 logs	Folder		Added
📔 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
🕒 🛅 Prefetch	Folder		Changed
System32	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 Reg	gistry System resources			
Files and folders				Include	d: 111 files (158,8 MB)	Collapse all
Name				Туре	Size	State
🖃 🔤 C:				Folder		Changed
🖃 📗 Program Files (x	«86)			Folder		Changed
🕀 📗 Mozilla Fire	fox			Folder		Added
🖃 📗 Mozilla Mai	intenance Service			Folder		Added
🕀 🗋 legs				Folder		Added
📄 mainti	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	wove to loider			Folder		Changed
🕀 🛄 Search	Include	Ins		Folder		Changed
🖃 🔛 Windo	Add to exclusion filter	•		Folder		Changed
€ St	Delete	Shift+Del		Folder		Changed
€ 🗋 ₩4	APPV virtualization leve			Folder		Changed
H 🛄 Winde	,			Folder		Changed
				Folder		Changed
Windows				Folder		Changed
appcompat				Folder		Ghanged
Prefetch				Folder		Ghanged
System32				Folder		Changed
🗄 🔄 Temp				Folder		Changed
Add 🔺 Del	ete					

4.8.2.3 Add System Folder

Add a system (standard) folder from the list.

• Go to the Files tab.

	Ir	nciudea: 111 files (158,	8 MB) A Collabse
me	Туре	Size	State
a Ca	Folder		Changed
Program Files (x86)	Folder		Changed
🗈 🔚 Mozilla Firefox	Folder		Added
🖃 🔚 Mozilla Maintenance Service	Folder		Added
🕀 🛄 legs	Folder		Added
Di maintenanceservice.exe	EXE	197,4 KB	Added
Uninstall.exe	EXE	87,5 KB	Added
📄 updater.ini	INI	1,2 KB	Added
E ProgramData	Folder		Changed
Microsoft	Folder		Changed
🕀 🛄 Search	Folder		Changed
Windows	Folder		Changed
🕢 📰 Start Menu	Folder		Changed
🕀 🛄 wfp	Folder		Changed
Windows-Defender	Folder		Changed
H 🗋 Users	Folder		Changed
Windows	Folder		Changed
🕀 🛄 appcompat	Folder		Changed
Prefetch	Folder		Changed
System32	Folder		Changed
🗉 🔄 Temp	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

≡ menu	Package	Files	Shortcuts\Apps	Registry	System resources			
Files an	d folders						Included: 112 files (19	58.9 MB) V Collapse al
Name						Туре	Hide empty folders	
😑 📄 C:						Folde	Hide excluded items	iged
8	Program Files (x86	5)				Folde	□ Hide items without p	iged
٠	Mozilla Firefox	c				Folde		errinasiona
8	Mozilla Mainte	enance Servi	ce			Folde	Hide added files	ed
	🗈 🛄 logs					Folde	☐ Hide changed files	łd
	i maintenar	nceservice.ex	e			EXE		ed
	Uninstall.e	жe				EXE	Hide removed files	łd
	updater.in	i				INI	Clear filter	ed
	ProgramData					Folder		unanged
	Microsoft					Folder	r	Changed
	Search					Folder	F	Changed
	Windows	Defender				Folder	r -	Changed
	Users	Detender				Folder	·	Changed
	pace					Folder	r	Changed
	Public					Folder	r	Changed
	Windows					Folder	r	Changed
÷	appcompat					Folder	F	Changed
÷	Prefetch					Folder	F	Changed
÷	System32					Folder	£	Changed
٠	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	ed: 112 files (158,9 MB)) 🔨 Collapse all
Name	Туре	Size	State
B C	Folder		Changed
E 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
Windows Defender	Folder		Changed
Users	Folder		Changed
H D pace	Folder		Changed
Public	Folder		Changed
Windows	Folder		Changed
B ppcompat	Folder		Changed
🚯 🔽 Prefetch	Folder		Changed
B System32	Folder		Changed
🕃 🗋 Temp	Folder		Changed
Import files Subfolder System folders			



 \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	

4.8.2.4 Add Subfolder

Add a subfolder (user-defined folder).

• Go to the Files tab.

	ITIG	Liuded. 111 liles (150,0	IVID) V CONODIC
me	Туре	Size	State
a	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
jupdater.ini	INI	1,2 KB	Added
ProgramData	Folder		Changed
Microsoft	Folder		Changed
Search	Folder		Changed
Windows	Folder		Changed
Start Menu	Folder		Changed
	Folder		Changed
U Windows Detender	Folder		Changed
Users	Folder		Changed
	Folder		Changed
U appcompat	Folder		Changed
	Folder		Changed
	Folder		Changed
T +C+++	Foider		Gnangeo



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	
8 0	Folde [Hide excluded items	iged
Program Files (x86)	Folde	Hide items without permissions	iged
🗈 🔜 Mozilla Firefox	Folde	Hide items without permissions	ed
🖃 🔚 Mozilla Maintenance Service	Folde [Hide added files	ed
	Folde	Hide changed files	ed.
i maintenanceservice.exe	EXE		ed
La Uninstallexe	EXE	Hide removed files	bł
updater.ini	INI	Clear filter	ed
ProgramData	Folde		eneriged
	Folder		Changed
	Eolder		Changed
	Eolder		Changed
■ System32	Folder		Changed
E Temp	Folder		Changed
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 S	ihortcuts\Apps Registry Syste	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		1	Folder		Added		
🗈 🛅 legs	Import files		Folder		Added		
maintenanceservice.exe	New subfolder		EXE	197,4 KB	Added		
Uninstall.exe	Proportion E2		EXE	87,5 KB	Added		
ipdater.ini	Mayo to folder		INI	1,2 KB	Added		
ProgramData	Move to folder		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	Arr Virtualization level		Folder		Changed		
🗈 🛄 Windows-Defender			Folder		Changed		
Users			Folder		Changed		
Windows			Folder		Changed		
appcompat			Folder		Changed		
Prefetch			Folder		Changed		
System32			Folder		Changed		
🗉 🦳 Temp			Folder		Changed		
Add 🔺 Exclude							



×
• Enter a folder name and click Add.

New subfolde	er		×
Name			0
	Add	Cancel	

4.8.2.5 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
B C	Folder		Changed
🖃 🔤 Program Files (x86)	Folder		Changed
🗷 🔤 Mozilla Firefox	Folder		Added
🖃 🔚 Mozilla Maintenance Service	Folder		Added
🖻 🗖 legs	Folder		Added
🗎 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
🗷 🛄 wfip	Folder		Changed
😰 🔽 Windows-Defender	Folder		Changed
Users	Folder		Changed
E Windows	Folder		Changed
appcompat	Folder		Changed
Prefetch	Folder		Changed
B System 32	Folder		Changed
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

Type Folder Folder Folder Folder EXE EXE	Size	State Changed Changed Added
Folder Folder Folder Folder EXE EXE		Changed Changed Added
Folder Folder Folder Folder EXE EXE		Changed Added
Folder Folder Folder EXE		Added
Folder Folder EXE		
Folder EXE		Added
EXE		Added
5×5	197,4 KB	Added
EAE	87,5-KB	Added
INI	1,2 KB	Added
Folder		Changed
	Folder Folder Folder	Folder Folder

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

Import files			_		×
	•				
	Files	Import COM			
Files					
Name Siz	ze Target path				
Add files Add folder					
Add A Remove					
			Next >	Can	cel



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

Select files					×
← → × ↑ 📙	« Sou	irces > MozillaFirefox > MyAppFiles1	✓ [™] Searce	h MyAppFiles1	Q
Organize 🔻 Ne	w folde	r			
- Ouish second		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	R	hhctrl.ocx	2/21/2017 2:38 PM	ActiveX control	524
🚆 Documents	*	🚳 msdxm.ocx	2/21/2017 2:38 PM	ActiveX control	5
Pictures	*	imsscript.ocx	2/21/2017 2:38 PM	ActiveX control	101
DoeDrive		🚳 pdfshell.dll	2/21/2017 2:38 PM	Application extens	388
I Onebrive		📄 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
- Network		dc.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	me: "config.ini" "dmview.ocx" "hhctrl.oc	x" "msdxm.ocx" "ms ∨ All f	iles (*.*)	\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 Remove					
Complete now without extract	ing COM info	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				
		Files Import COM				
Import (СОМ					
File	Root	Key Val	ue name	Value		-
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\Control				
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\\InprocServer32		C:\Users\pace\	Desktop\Sc	Ju
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\InprocServer32 Thr	eadingModel	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		DiskManagem	ent.Control	
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\ToolboxBitmap32		C:\Users\pace\	Desktop\Sc	ou .
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\TypeLib		{AEB84C80-95	DC-11D0-B	7F
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}\\Version		1.0		
dmview.ocx	HKCR	CLSID\{AEB84C83-95DC-11D0-B7FC-B61140119C4A}		DiskManagem	ent.Control	
dmview.ocx	HKCR	CLSID\{AEB84C84-95DC-11D0-B7FC-B61140119C4A}\\nprocServer32		C:\Users\pace\	Desktop\So	u
dmview.ocx	HKCR	CLSID\{AEB84C84-95DC-11D0-B7FC-B61140119C4A}		DiskManagem	ent.Propert	yF
dmview.ocx	HKCR	DiskManagement.Control\CLSID		{AEB84C83-95	DC-11D0-B	7F _
4						•
Import C	OM informati	on				
		< Back	Fin	ish	Cancel	



4.8.2.6 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
ler .	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 Syste	m 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		7	Folder		Added
🗈 🛄 logs	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	Evoludo Dol		Folder		Changed
Microsoft	Exclude Del		Folder		Changed
E Search	Add to exclusion filter		Folder		Changed
H 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
			Folder		Changed
			Folder		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		
🗈 🔛 browser		
🕢 🔳 defaults		
fonts		
🗉 📰 gmp-clearkey		
uninstall		
Mozilla Maintenance Service		
🖃 🔤 ProgramData		
Microsoft		
Users		
Public		
Windows		
V 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	





4.8.2.7 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 4.8.6.3.6. Afterwards, click Save.

Properties			_		×
	General	Permissions			
File					
Name					
maintenanceservice.ex	e				
larget (installation) folder			 		
C:\Program Files (x86)	Mozilla Maintenance	e Service	E	Browse	





4.8.2.8 Edit Folder Properties

Edit a name, parent folder and permissions (used for MSI only) of the folder.

• Go to the Files tab.

	I	ciudea. III liles (156,6	(MD)
me	Туре	Size	State
a 🔤 C:	Folder		Changed
Program Files (x86)	Folder		Changed
Mozilla Firefox	Folder		Added
Mozilla Maintenance Service	Folder		Added
	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
E Start Menu	Folder		Changed
	Folder		Changed
Windows Detender	Folder		Changed
Users	Folder		Changed
	Folder		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
			Folder		Changed
			Folder		Changed
Add • Exclude					

• Update the necessary values such as folder Name and Parent folder. For setting or removing Permissions, see section 4.8.6.3.6. Afterwards, click Save.

© Properties			_		\times
	General	Permissions			
Folder					
Mozilla Maintenance Service					
Parent folder					
C:\Program Files (x86)				Browse	
	Save	Cancel			





4.8.2.9 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						- 🗆 X
≡ MENU Package	Files Shortcuts\App	s Registry	System resources				
Files and folders					Include	d: 111 files (158,8 MB)	V Collapse all
Name				1	Гуре	Size	State
- C:					Folder		Changed
Program Files (x86))				Folder		Changed
🗉 📄 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	Mous to folder	12			NI	1,2 KB	Added
ProgramData	Nove to loider	D.I.			Folder		Changed
 Microsoft 	Exclude	Del			Folder		Changed
E Search	Add to exclusion filter	•			Folder		Changed
Windows	Delete	Shift+Del			Folder		Changed
Start N	APPV virtualization level	• •			Folder		Changed
Pro					Folder		Changed
€ wfp					Folder		Changed
Windows E	efender				Folder		Changed
Users					Folder		Changed
pace					Folder		Changed
					Folder		Changed
Windows					Folder		Changed
Drofetsh					Folgef		Changed
Evidence					Folder		Changed
Temp					Folder		Changed
a 🖂 temb					FOIGHT		Gildigeo
Add • Exclud	e						

• 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					- 🗆 ×
≡ MENU Package Files	Shortcuts\Apps Reg	gistry Sy	stem resources			
Files and folders				Includ	ed: 109 files (158,6 MB) V Collapse all
Name				Туре	Size	State
🗃 🔲 C:				Folder		Changed
Program Files (x86)				Folder		Changed
🗈 🔜 Mozilla Firefox				Folder		Added
Mozilla Maintenance Service	ie		1	Folder		Added
🗉 🛅 logs	Import files			Folder		Added
maintenanceservice.ex	New subfolder			EXE	197,4 KB	Added
Uninstall.exe	Proportion	E.2		EXE	87,5 KB	Added
updater.ini	Maus to folder	F2		101	1 ,2 KB	Added
ProgramData	wove to tolder			Folder		Changed
Microsoft	Include	Ins		Folder		Changed
Search	Add to exclusion filter	•		Folder		Changed
Windows	Delete	Shift+Del		Folder		Changed
🖃 🔛 Start Menu	APPV virtualization leve	►		Folder		Changed
Programs				Folder		Changed
🕀 🖿 🖿 wfp				Folder		Changed
Windows-Defender				Folder		Changed
Users				Folder		Changed
🕀 📄 pace				Folder		Changed
Public				Folder		Changed
Windows				Folder		Changed
appcompat				Folder		Changed
Prefetch				Folder		Changed
System32				Folder		Changed
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	nerator	×
Q	Do you want to permanently delete this folder?	
	This operation will delete the folder with all of its subfolders and files from the project folder on the file system and save the opened project.	
	Delete <u>C</u> ancel	



4.8.3 Registry

Choose a scenario that better suits your needs:

- Exclude Registry, described in section 4.8.3.1 Exclude the unnecessary registry keys and values from the project.
- Include Excluded Registry, described in section 4.8.3.2 Include the necessary registry keys and values, previously excluded from the project.
- Add Registry Key, described in section 4.8.3.3 Add a new registry key or sub-key.
- Add Registry Value, described in section 4.8.3.4 Add a new registry value.
- Import Registry, described in section 4.8.3.5 Import registry from the REG file to the project.
- Export Registry, described in section 4.8.3.6 Export registry from the project to the REG file.
- Move Value, Key, described in section 4.8.3.7 Move a registry value or a key from one parent key to another one.
- Edit Registry Key, described in section 4.8.3.8 Modify details of the selected registry key.
- Edit Registry Value, described in section 4.8.3.9 Modify details of the selected registry value.
- Delete Value, Key, described in section 4.8.3.10 Delete a registry value or a key from the project.





4.8.3.1 Exclude Registry

Exclude the unnecessary registry keys and values from the project.

• Go to the **Registry** tab.

		included: 115 Va	alues Collapse
ime	Туре	Value	State
HKEY_CLASSES_ROOT	System hive		
HKEY_CURRENT_USER	System hive		
Software	Key		Changed
Glasses	Key		Changed
Microsoft	Key		Changed
HKEY_LOCAL_MACHINE	System hive		
SOFTWARE	Key		Changed
	Key		Changed
E Clients	Key		Changed
	Key		Changed
	Key		Added
Policies Policies Policies	Key		Changed
WOWER22Node	Key		Changed
Suctam	Key		Changed
	Key		Changed
	Suctem hive		changed
	Key		Changed
Software	Key		Ghanged
B DEFAULT B Software	key Key		Changed 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	Value	State
	2007		System bive		
HKEY CURRENT	USER		System hive		
Software			Kev		Changed
🗈 🛄 Glasse	Import registry		Key		Changed
🗉 🔝 Micro	Export registry		Key		Changed
HKEY_LOCAL_	Now kov		System hive		
🖃 🔚 SOFTWAR	New Key		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
🗉 🚞 WOW			Key		Changed
🖃 🔛 System	APPV virtualization level	•	Key		Changed
🕀 🔚 CurrentC	ontrolSet		Key		Changed
HKEY_USERS			System hive		
DEFAULT			Key		Changed
🗄 🛄 Software			Key		Changed



4.8.3.2 Include Excluded Registry

Include the necessary registry keys and values, previously excluded from the project.

• Go to the **Registry** tab.

Jame Type Value State I HKEY_CLASSES_ROOT System hive Image: System hive Image: System hive Image: System hive I HKEY_CLASSES_ROOT System hive Image: System hive Image: System hive Image: System hive I metry classes Key Image: System hive Image: System hive Image: System hive I metry classes Key Image: System hive Image: System hive Image: System hive I metry classes Key Image: System hive Image: System hive Image: System hive I metry classes Key Image: System hive Image: System hive Image: System hive I metry classes Key Image: System hive Image: System hive Image: System hive I metry classes Key Image: System hive Image: System hive Image: System hive I metry classes Key Image: System hive Image: System hive Image: System hive I metry classes Key Image: System hive Image: System hive Image: System hive I metry classes Key Image: System hive Image: System hive Image: System hive I metry classes Key Image: System hive Image: System hive Image: System hive I metry classes Key	gistry		included. It's values	
HKEY_CLASSES_ROOT System hive System hive System hive HKEY_CURRENT_USER System hive Changed Software Key Changed B Classes Key Changed B Microsoft Key Changed B Microsoft Key Changed B Classes System hive Changed B SOFTWARE Key Changed Classes Key Changed Changed B Classes Changed Changed B Classes Key Changed B Classes Key Changed B Classes Key Changed B Microsoft Key Changed B Microsoft Key Changed B Microsoft Key Changed B Microsoft Key Changed B Nocilas Key Changed B Nocilas Key Changed B Wow6432Node Key<	me	Туре	Value	State
HKEY_CURRENT_USER System hive System hive Changed Software Key Changed Imaged Microsoft Key Changed Imaged Microsoft System hive Changed Imaged Software Key Changed Imaged Key Changed Changed Imaged System hive System hive Changed Imaged Key Changed Changed Imaged Microsoft Key Changed Imaged Morsoft Key Changed Imaged Morsoft Key Changed Imaged Morsoft Key Changed Imaged Morsoft Key Changed Imaged Key Changed Changed Imaged Key Changed Changed Imaged Key Changed Changed Imaged Key<	HKEY_CLASSES_ROOT	System hive		
Software Key Changed @ Classes Key Changed @ Microsoft Key Changed # HKEY_LOCAL_MACHINE System hive Changed @ Classes Key Changed @ Classes Key Changed @ Classes Key Changed @ Classes Key Changed @ Microsoft Key Changed @ Microsoft Key Changed @ Morsoft Key Changed @ Morsoft <td>HKEY_CURRENT_USER</td> <td>System hive</td> <td></td> <td></td>	HKEY_CURRENT_USER	System hive		
Reg Casses Key Charged B Microsoft Key Charged B Microsoft System hive Charged B Microsoft Key Charged B Classes Key Charged B Classes Key Charged B Classes Key Charged B Classes Key Charged B Microsoft Key Charged B Mozila Key Charged B RegisteredApplications Key Charged B RegisteredApplications Key Charged B CurrentControlSet Key Charged B Atternet System Charged B Atternet Key Charged B CurrentControlSet Key Charged B Atternet System Charged B Atternet Key Charged	Software	Key		Changed
Import Key Changed Import System hive System hive Import Key Changed Import Key Changed </td <td></td> <td>Key</td> <td></td> <td>Changed</td>		Key		Changed
HKE_LOCAL_MACHINE System hive SOFTWARE Key Changed Image: Classes	Microsoft	Key		Changed
B SOF WARE Key Changed B Classes Key Changed B Classes Key Changed B Microsoft Key Changed B Microsoft Key Changed B Mozilla Key Changed B Mozilla Key Changed B RegisteredApplications Key Changed B WOW6432Node Key Changed CurentControlSet Key Changed M CurentControlSet Key Changed D DEFAULT Key Changed D DEFAULT Key Changed	HKEY_LOCAL_MACHINE	System hive		
Reg Key Charged Reg Key Charged Reg Key Charged Reg Key Added RegisteredApplications Key Charged	SOFTWARE	Key		Changed
B Clients Key Changed B Microsoft Key Changed B Mozilla Key Added B Policies Key Changed B Mozilla Key Changed B Mozilla Key Changed B WOW6432Node Key Changed B WOW6432Node Key Changed B CurentControlSet Key Changed B CurentControlSet System hive Changed B DEFAULT System hive Changed	Classes	Key		Changed
Image: Microsoft Key Changed Image: Microsoft Key Added Image: Mozilia Key Changed Image: Microsoft Key		Key		Changed
Image: Modilia Key Added Image: Modilia Key Changed	Microsott	Key		Changed
Nonces Key Changed @ Nonces System Nonces Changed		Key		Added
keysteredapplications Key Changed B WOW6432Node Key Changed B System Key Changed B CurrentControlSet Key Changed HKEY_USERS System-hive Changed B DEFAULT Key Changed B Software Key Changed		Key		Ghanged
key Charged System Key B CurrentControlSet Key Charged Metry LSERS System-hive D DEFAULT Key Charged	Registered Applications	Key		Changed
Abject Key Charged Bit CurrentControlSet Key Charged HKEY_LISERS System-hive Charged Differentiation Key Charged Bit CurrentControlSet Key Charged	WOW6432Node	Key		Changed
Key Key Changed I HKEY_USERS System hive Image:	System	Key		Changed
Inter-users System nive D DEFAULT Key Changed D Dsfware Key Changed		Key		Changed
Definition Key Changed Image: Definition Key Changed		System nive		C 1
La Junivare Key Changeo		Key		Changed
		Ney		Ghangeu

• 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	\Apps Regi	istry	System resources				
Registry							Included: 113 values	Collapse all
Name					Туре	Value		State
HKEY_CLASSES_F	ROOT				System hive			
HKEY_CURRENT	USER				System hive			
🖃 📗 Software					Key			Changed
🕀 🛄 Glasses					Key			Changed
🕀 🔚 Microsof	t				Key			Changed
HKEY_LOCAL_M	ACHINE				System hive			
SOFTWARE					Key			Changed
🕀 🔚 Classes					Key			Changed
🕀 🔚 Clients					Key			Changed
Microsof	t				Key			Changed
🗄 📕 Mozilla					Key			Added
Policies					Key			Changed
🕀 🔚 Register	Import registry				Key			Changed
WOW64	Export registry				Key			Changed
🖃 🚞 System	New key				Key			Changed
🕀 🔚 Currenti	New value				Кеу			Changed
HKEY_USERS	New value				System hive			
	Properties	F2			Key			Changed
🗄 🛅 Softwar	Move to				Key			Changed
	Include	Ins						
	Add to exclusion filter	•						
	Delete	Shift+Del						
	APPV virtualization level	►						
Add 🔺 🛛	Delete							



4.8.3.3 Add Registry Key

Add a new registry key or sub-key.

• Go to the **Registry** tab.

HKEY_CLASSES_ROOT System hive IMEX_CLASSES_ROOT System hive IMEX_CURRENT_USER System hive Image: Software Key	e e	Type	Value	State
HKEY_CURRENT_USER System Hive Image: Software Key Image: Software Key		System hive	*****	
Software Key Image: Software	HKEY CURRENT USER	System hive		
Key Key Microsoft Key Nicrosoft Key SOFTWARE System hive Classes Key Clients Key Microsoft Key Mozilia Key Noticies Key Modifies Key Microsoft Key Clients Key Mozilia Key Clients Key Mozilia Key Clients Key Clients Key Motorisations Key Motorisations Key Microsoft Key <tr< td=""><td>G Software</td><td>Kev</td><td></td><td>Changed</td></tr<>	G Software	Kev		Changed
B Microsoft Key HKEY_LOCAL_MACHINE System hive SOFTWARE Key B Classes Clients Key Clients Key B Morsoft Morsoft Key B Norsoft B Key B Norsoft B Key B Key B CurrentControlSet HKEY_LUSERS System hive	🕀 🛄 Glasses	Key		Changed
HKEY_LOCAL_MACHINE System hive Image: SOFTWARE Key	🖲 🔤 Microsoft	Key		Changed
SOFTWARE Key B Classes Key B Classes Key B Clients Key B Microsoft Key B Mozilla Key B RejsteredApplications Key B WOW6432Node Key B System Key B CurrentControlSet Key B Key Exponention	HKEY_LOCAL_MACHINE	System hive		
B Classes B Classes B Clients B Microsoft B Microsoft B Mozilla B RegisteredApplications B RegisteredApplications B WOW6432Node System Key B CurrentControlSet B HKEY_USERS	SOFTWARE	Key		Changed
Rey Key	🕀 🔚 Classes	Key		Changed
Image: Microsoft Key Image: Microsoft Key Image: Mozilia Key Image: Mozilia Key Image: Moxilia Key Image: Microsoft Key	Clients	Key		Changed
Image: Mozilia Key Image: Mozilia Key Image: Mozilia Key Image: MoXilia Key Image:	😠 🔚 Microsoft	Key		Changed
Composition Key B RegisteredApplications Key B WOW6432Node Key B System Key B CurrentControlSet Key B HKEY_USERS System-hive	😠 🔤 Mozilla	Key		Added
BegisteredApplications Key BegisteredApplications Key BegisteredApplications Key Description Key	Policies	Key		Changed
Image: WOW6432Node Key Image: System Key Image: WOW6432Node Key Image: WOW6432Node Key Image: WOW6432Node Key Image: WOW6432Node System-hive	RegisteredApplications	Key		Changed
System Key Image: System function trolSet Key Image: HKEY_USERS System hive	WOW6432Node	Key		Changed
B CurrentControlSet Key Image: HKEY_USERS System hive	System	Key		Changed
HKEY_USERS System hive	CurrentControlSet	Key		Changed
		System hive		
C Defense Key		Key		Ghanged
I Junimare hey		Ney		Changeo

• 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 System hive HKEY_CURRENT_USER System hive Software Key Software Key Minor Export registry HKEY_LOCAL New key HKEY_LOCAL System hive Software Key HKEY_LOCAL New key New value Key Software Key New value Key Micro Move to	Value State Image: State Image: State
HKEY_CLASSES_ROOT System hive HKEY_CURRENT_USER System hive Software Key Import registry Key HKEY_LOCAL New key Software System hive Micro Export registry New key System hive New key System hive New key System hive New key Key New value Key Nov value Key Micro Move to	e la
Import registry Key Import registry Key	E Changed Changed
B Software Key B Classes Import registry Key B Micro Key Key B Micro Key Key B Classes Key Key B Classes Key Key B Classes Key Key B Classes Key Key B Micro Key Key	Changed Changed Changed
B Import registry Key B Microl Export registry Key B Microl Key System hive B Classe New key System hive B Classe Key Key B Classe Key Key B Classe Key Key B Micro Move to Key	Changed Changed Changed Changed Changed
B Microl Export registry Key B HKEY_LOCAL System hive System hive B SOFTWAR New key Key B Classe Key Key B Classe Properties F2 Key Move to Key Key Key	Changed
Image: HKEY_LOCAL_ New key System hive Image: Software New key Key Image: Software New value Key Image: Software Properties F2 Image: Image: Software Key Key	2 Chapped
Image: Software Key Image: Software New value Image: Software Key	Changed
Image: Classe Key	Changed
B Client Properties F2 Key B Microi Move to Key	Changed
Micro Move to Key	Changed
	Changed
Mozili Exclude Del	Added
Add to exclusion filter	Changed
Regist Delete Shift+Del	Changed
WOW Key	Changed
System APPV virtualization level Key	Changed
CurrentControlSet	Changed
HKEY_USERS System hive	3
B DEFAULT Key	Changed
🗄 🗋 Software Key	Changed



• Enter a key name and click Sa

5.3.1 - Getting Started	d		•
ter a key name and	l click Save .		
Properties			– 🗆 X
	General	Permissions	
Key			
Name			
Darant kay			U
Software			Browse
Root			
HKEY_CURRENT_USER			~
	Save	Cancel	
	2476	Conter	



4.8.3.4 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	90430-144511.mgp							-	\Box ×
≡ MENU Packa	age Files Shortcu	ts\Apps	Registry	System resources					
Registry							Included: 113 values	Colla	apse 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	
E Client	Properties	F2			Key			Changed	
Micro	Move to				Key			Changed	
🕀 📕 Mozill	Exclude	Del			Key			Added	
Policie	Add to exclusion filter	•			Key			Changed	
	Delete	Shift+Del			Key			Changed	
. ∎ WOW					Key			Changed	
System	APPV virtualization leve	•			Key			Changed	
Current	tControlSet				Key			Changed	
HKEY_USERS					System hive				
					Key			Changed	
Softwa	re				Key			Changed	
Add 🔺	Exclude								

• 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

_		×
		0
		~
В	rowse	
		~
		- C



4.8.3.5 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) Mozilla Key		
Image: Clients Key Image: Clients Key Image: Clients Key Image: Clients Key	Changed	
B Mozilia Key	Changed	
Rey Nozilia	Changed	
Delicier Kar	Added	
Pointeres Ney Pagistanad Applications Kay	Changed	
WOW6432Node Key	Changed	
	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			– 🗆 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
Glasses	Key		Changed
Microsoft	Key		Changed
HKEY_LOCAL_MACHINE	System hive		
SOFTWARE	Key		Changed
Classes	Key		Changed
Clients	Key		Changed
Microsoft	Key		Changed
🗉 🔜 Mozilia	Key		Added
Policies	Key		Changed
Registered Applications	Key		Changed
WOW6432Node	Key		Changed
🖃 🔜 System	Key		Changed
E CurrentControlSet	Key		Changed
	System hive		
C DEFAULT	Key		Changed
🗈 🛅 Software	Key		Changed
Import registry Key Value Add • Exclude			



•

Click Add to select a REG file.		
Import registry		- 🗆 X
Registry to import		
Кеу	Value name	Value
Add Bamava		EntriperO
Add Remove		Littlies.o
	Imp	ort Cancel

• Choose a REG file and click Open.

Open							Х
$\leftarrow \rightarrow \cdot \cdot \uparrow$	« Deskto	op > Sources > MozillaFirefox >	~ ∂	Searc	h MozillaFirefox	ļ	ρ
Organize 🔻 Ne	w folder						?
Quick access	-	Name ^	Date modified	PM	Type File folder	Size	
Desktop	74	Prev versions	9/20/2018 4:18	PM	File folder		
Downloads	1	🛐 RegistrySettigns2.reg	2/21/2017 2:38	PM	Registration Entri	es	2
Documents	*	RegistrySettings1.reg	9/20/2018 4:19	PM (Registration Entri	es	5
Pictures	*	👔 RegistrySettings3.reg	2/21/2017 2:38	PM	Registration Entri	es	4
 OneDrive This PC Network Homegroup 	1						
	<						>
	File <u>n</u> ame	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.

Import registry		_		×
Registry to import				
Кеу	Value name	Value		
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\Alt\Descriptior	Description	Use Al	lt to activa	a i
HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\Alt\Sequence	Sequence	F9		
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\Alt\DisableOut}$	DisableOutput	1		
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\Alt\RunAfterFA}$	RunAfterFARStart	0		
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\Alt\EmptyCom}$	EmptyCommandLine	0		
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\Alt\NotEmptyControl Control Contr$	NotEmptyCommandLine	0		
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\RAlt\Des}$	Description	Use Ri	ight Alt to	
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\RAlt\Seq}$	Sequence	Esc		
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\RAlt\Disc$	DisableOutput	1		
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\RAlt\Rur}$	RunAfterFARStart	0		
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\RAlt\Employment{Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt\Employment}{KeyMacros\MainMenu\RAlt}{KeyMacros\MainMenu\RAlt}{KeyMacros\MainMenu\Ralt}{KeyMark}{KeyMacros\MainMenu\Ralt}{Ke$	EmptyCommandLine	0		
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\MainMenu\RAlt\Not}$	NotEmptyCommandLine	0		
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\RAlt\Descriptic}$	Description	Use Ri	ight Alt to	
${\sf HKEY_CURRENT_USER\Software\Far2\KeyMacros\Shell\RAlt\Sequence}$	Sequence	F9		_
	Dissels Octavit	4	÷	
Add Remove			Entries:2	4
	Import		Cancel	



4.8.3.6 Export Registry

Export registry from the project to the REG file

• Go to the **Registry** tab.

HKEY_CLASSES_ROOT System hive Image: Classes HKEY_CURRENT_USER System hive Changed Classes Key Changed Image: Classes Key Changed	HKEY_CLASSES_ROOT System hive HKEY_CURRENT_USER System hive Software Key Classes Key Microsoft Key HKEY_LOCAL_MACHINE System hive Software Key Microsoft Key Micr	ne	Туре	Value	State
HKEY_CURRENT_USER System hive Changed Software Key Changed Image: Classes Key Changed Image: C	HKEY_CURRENT_USER System hive Changed Image: Software Key Changed	HKEY CLASSES ROOT	System hive		
B Software Key Changed Classes Key Changed Microsoft Key Changed HKEY_LOCAL_MACHINE System hive Changed SOFTWARE Key Changed Classes Key Changed Classes Key Changed Classes Key Changed Microsoft Key Changed Microsoft <td>SoftwareKeyChangedImageKeyChangedImageKeyChangedImageKeyChangedImageKeyChangedImageSystem hiveChangedImageSystem hiveChangedImageSystem hiveChangedImageSoftwareKeyChangedImageChangedKeyChangedImageChangedKeyChangedImageMicrosoftKeyChangedImageMicrosoftKeyChangedImageNotifiesKeyChangedImageNotifiesKeyChangedImageNotifiesKeyChangedImageNotifiesKeyChangedImageNotifiesKeyChangedImageNotifiesKeyChangedImageCurrentControlSetKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChanged<td>HKEY_CURRENT_USER</td><td>System hive</td><td></td><td></td></td>	SoftwareKeyChangedImageKeyChangedImageKeyChangedImageKeyChangedImageKeyChangedImageSystem hiveChangedImageSystem hiveChangedImageSystem hiveChangedImageSoftwareKeyChangedImageChangedKeyChangedImageChangedKeyChangedImageMicrosoftKeyChangedImageMicrosoftKeyChangedImageNotifiesKeyChangedImageNotifiesKeyChangedImageNotifiesKeyChangedImageNotifiesKeyChangedImageNotifiesKeyChangedImageNotifiesKeyChangedImageCurrentControlSetKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChangedImageImageKeyChanged <td>HKEY_CURRENT_USER</td> <td>System hive</td> <td></td> <td></td>	HKEY_CURRENT_USER	System hive		
Key Changed Microsoft Key Microsoft System Nve Microsoft Key SOFTWARE Key Classes Key Classed Key Microsoft Key Mozilla Key Mozilla Key Mozilla Key Mozilla Key Microsoft Key Model32Node Changed Microsoft Key Microsoft Key Microsoft Key Model32Node Key Microsoft Key Microsoft Key Microsoft Key Micruref Key Micrure	Image: Classes Key Changed Image: Microsoft Key Changed Image: Microsoft System hive Changed Image: SoftWARE Key Changed Image: SoftWARE Key Changed Image: Classes Key Changed <td< td=""><td>🖃 🔚 Software</td><td>Key</td><td></td><td>Changed</td></td<>	🖃 🔚 Software	Key		Changed
Implementation Key Changed Implementatio	ImplementationKeyChangedHKEY_LOCAL_MACHINESystem hiveChangedSOFTWAREKeyChangedClassesKeyChangedClassesKeyChangedMicrosoftKeyChangedMicrosoftKeyChangedMozillaKeyChangedMozillaKeyChangedMozillaKeyChangedMozillaKeyChangedMozillaKeyChangedSystemKeyChangedSystemKeyChangedSystemKeyChangedMEXPUSEAKeyChangedMEXPUSEAKeyChangedMEXPUSEAKeyChangedMEXPUSEAKeyChangedMEXPUSEAKeyChangedMEXPUSEAKeyChangedMEXPUSEAKeyChangedMEXPUSEAKeyChangedMEXPUSEAKeyChangedMEXPUSEAKeyChangedMEXPUSEAKeyChangedMEXPUSEAKeyChangedMEXPUSEAKeyChanged	🗈 🛅 Gasses	Key		Changed
HKEY_LOCAL_MACHINE System hive System hive Changed SOFTWARE Key Changed Changed Image: Clients Key Changed	HKEY_LOCAL_MACHINE System hive Changed SOFTWARE Key Changed Classes Key Changed Clints Key Changed Microsoft Key Changed Mozilla Key Changed MoxMok432Node Key Changed System Key Changed Microsoft Key Changed HKEYUSERS Key Changed Foftware Key	🗉 🔚 Microsoft	Key		Changed
Image: SoftWare Key Changed Image: Classes Key Changed Ima	Image: Software Key Changed Image: Classes Key Changed Image: Class	HKEY_LOCAL_MACHINE	System hive		
ImageKeyChanged <td>Image: ClassesKeyChangedImage: ClassesKeyChanged<td>SOFTWARE</td><td>Key</td><td></td><td>Changed</td></td>	Image: ClassesKeyChangedImage: ClassesKeyChanged <td>SOFTWARE</td> <td>Key</td> <td></td> <td>Changed</td>	SOFTWARE	Key		Changed
Image: ClientsKeyChangedImage: ClientsKeyChangedImage: ClientsKeyAddedImage: ClientsKeyChangedImage: ClientsSystem-NiveChangedImage: ClientsSystem-NiveKeyImage: ClientsKeyClientsImage: ClientsKeyClien	Image: Clients Key Changed Image: Clients Key Changed Image: Clients Key Added Image: Clients Key Changed Image:	🗈 🔚 Classes	Key		Changed
Implify Microsoft Key Changed Implify Microsoft Key Added Implify Microsoft Key Changed	Implicit Microsoft Key Changed Implicit Microsoft Key Added Implicit Microsoft Key Changed Implicit Microsoft Key Changed <td>🕀 🔚 Clients</td> <td>Key</td> <td></td> <td>Changed</td>	🕀 🔚 Clients	Key		Changed
Image: Modella Key Added Image: Policies Key Changed Image: Policies System Key Changed	Mozilla Key Added Policies Key Changed System Key Changed CurrentControlSet Key Changed MKEY-USERS System-hive Changed POSRWare Key Changed	Microsoft	Key		Changed
RegisteredApplications Key Changed B RegisteredApplications Key Changed B WOW6432Node Key Changed System Key Changed CurrentControlSet Key Changed HKEY_USERS System-hive Changed DEFAULT Key Changed Changed System-hive Changed	Policies Key Changed B RegisterdApplications Key Changed B WOW6432Nde Key Changed System Key Changed Changed CurrentControlSet Key Changed Changed HKEV_USERS System-hive Changed Changed D DEFAULT Key Changed Software Key Changed Changed	Mozilla	Key		Added
B RegisteredApplications Key Changed B WOW6432Node Key Changed B System Key Changed B CurrentControlSet Key Changed HKEY_USERS System-hive Changed B Software Key Changed	RegisteredApplications Key Changed Image: Model Applications Key Changed Image: Model Applications Key Changed Image: System Applications Key Changed Image: CurrentControlSet Key Changed Image: MIXEV_USERS System-hive Changed Image: DEFAULT Key Changed Image: DEFAULT Key Changed	Policies	Key		Changed
Rey Key Changed System Key Changed B CurrentControlSet Key Changed HKEY_USERS System-hive Changed C DEFAULT Key Changed C Software Key Changed	WOW6432Node Key Changed System Key Changed System Key Changed LucrontControlSet Key Changed HKEY_USERS System hive Changed D_LOEFAULF Key Changed B	RegisteredApplications	Key		Changed
System Key Changed B CurrentControlSet Key Changed HKEY_USERS System-hive Changed D DEFAULT Key Changed B Software Key Key	System Key Changed B CurrentControlSet Key Changed HKEY_USERS System-hive Changed Image: Image ControlSet Key Changed Image ControlSet System-hive Key Image ControlSet Key Changed Image ControlSet Key Changed	WOW6432Node	Key		Changed
B CurrentControlSet Key Changed HKEY_USERS System-hive B DEFAULT Key B Software Key	Hit Key Changed HKEY_USERS System hive Image: Software Key Changed Image: Software Key Changed	E System	Key		Changed
HKE-LUSERS System-hive Di LEFAULT Key Changed Di Software Key Changed	Intel-poses bytem have Image: DefAult Key Image: DefAult Key Image: DefAult Key	CurrentControlSet	Key		Changed
Image: Software Key Changed	Instruction Key Changed Image Software Key Changed		System hive		G
La journare Key Clariges	U Johnse Key Changes Changes		Key		Changed
			Ney		онануев

• 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						- 🗆	×
≡ 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				
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	Newvalue			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	
🕀 🖿 WOW				Key			Changed	
🖃 🚞 System	APPV virtualization leve	•		Key			Changed	
E Current	tControlSet		-	Key			Changed	
HKEY_USERS				System hive				
DEFAULT				Key			Changed	
Software	re			Key			Changed	
Add	Firstude							
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	s	√ Ū	Search Download	S	9
Organize 🔻 Ne	w folder					•
🖈 Quick access	▲ Name	^	Date modified	Туре	Size	
E Desktop	*	No ite	ems match your search.			
👆 Downloads	*					
🔮 Documents	*					
Pictures	*					
i OneDrive						
📃 This PC						
💣 Network						
• 4 Homegroup	~					
File <u>n</u> ame:						~
Save as <u>t</u> ype:	Registry files (*.reg)					\sim
 Hide Folders 				<u>S</u> ave	Cancel	

4.8.3.7 Move Value, Key

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

• Go to the **Registry** tab.

	_		
me	Туре	Value	State
HKEY_CLASSES_ROOT	System hive		
HKEY_CURRENT_USER	System hive		
Software	Key		Changed
	Key		Changed
	Key		Changed
	System nive		Channel
	Key		Changed
	Key		Changed
	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 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-1	190430-144511.mgp	,						- 0	×
≡ MENU Pack	age Files Shortcu	ts\Apps	Registry	System resources					
Registry							Included: 113 values	Collapse all	
Name					Туре	Value		State	
HKEY_CLASSE	S_ROOT				System hive				
HKEY_CURREN	NT_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				Key			Changed	
🗄 🔛 Mozill	Exclude	Del			Key			Added	
🕀 🛄 Policie	Add to exclusion filter	•			Key			Changed	
🕀 🔛 Regist	Delete	Shift+Del			Кеу			Changed	
🗉 🔛 WOW					Кеу			Changed	
🖃 🔛 System	APPV virtualization leve	el ►			Key			Changed	
🗄 🔛 Currer	ntControlSet		-		Кеу			Changed	
HKEY_USERS					System hive				
					Key			Changed	
E Softwa	are				Key			Changed	
Add 🔺	Exclude								

• 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	
E WOW6432Node	
E System	
CurrentControlSet	
V Select Cancel	



4.8.3.8 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.

Registry				Included: 113 values	Collapse all
Name			Туре	Value	State
HKEY_CLASSES_	ROOT		System hive		
HKEY_CURRENT	_USER		 System hive		
Software			 Key		Changed
	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
Policie	Add to exclusion filter	•	Key		Changed
	Delete	Shift+Del	Key		Changed
€ WOW			Key		Changed
System	APPV virtualization level	,	Key		Changed
Currento	ControlSet		Key		Changed
HKEY_USERS			System hive		
			Key		Changed
Software	2		Key		Changed

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 4.8.6.5. Afterwards, click Save.

Save.					
Properties			_		×
	General	Permissions			
Кеу					
Name					
Software					
Parent key					
			E	Browse	
Root					
HKEY_CURRENT_USER					~
	Sava	Cancal			
	Save	Cancer			



4.8.3.9 Edit Registry Value

Modify details of the selected registry value.

• Go to the **Registry** tab.

ame	Type	Value	State
	Surtan biya	Ville	State
HKEY CURRENT USER	System hive		
Software	Kev		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	Key		Changed
HKEY_USERS	System hive		
	Key		Changed
T Pottmate	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					- 🗆	×
	ts\Apps Registry	System resource	s			
Registry				Included: 113 values	Collapse	e 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	
StartMenuInternet			Key		Changed	
E Firefox-E7CF176E110C211B			Key		Added	
🖃 🔛 Capabilities			Key		Added	
			Key		Added	
🗈 🔛 StartMenu			Key		Added	
URLAssociations			Кеу		Added	
ApplicationDescription	large entry sisters		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 l	evel +				

- 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
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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 value</deafault>	2			
Туре				
String value (REG_SZ)				~
builde (neo_be)				
Value Firefox delivers safe, easy v	web browsing. A familiar user interface, enhan	ced sec	urity fea	ture
Value Firefox delivers safe, easy v Initial value before capturing	web browsing. A familiar user interface, enhan	ced sec	urity fea	ture •
Value Value Firefox delivers safe, easy v Initial value before capturing	web browsing. A familiar user interface, enhan	ced sec	urity fea	ture •
Value Value Firefox delivers safe, easy v Initial value before capturing	web browsing. A familiar user interface, enhan	ced sec	urity fea	ture •
Value Value Firefox delivers safe, easy v Initial value before capturing Key	web browsing. A familiar user interface, enhan	ced sec	urity fea	ture •
Value Value Firefox delivers safe, easy v Initial value before capturing Key SOFTWARE\Clients\StartM	web browsing. A familiar user interface, enhan	il	urity fea	ture
Value Value Firefox delivers safe, easy v Initial value before capturing Key SOFTWARE\Clients\StartM Root	web browsing. A familiar user interface, enhan	il	urity fea	ture
Value Value Firefox delivers safe, easy v Initial value before capturing Key SOFTWARE\Clients\StartM Root HKEY_LOCAL_MACHINE	web browsing. A familiar user interface, enhan	il	urity fea	ture



4.8.3.10 Delete Value, Key

Delete a registry value or a key from the project.

• Go to the **Registry** tab.

me	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
	Key		Changed
🕢 🔜 Clients	Key		Changed
🕀 🔚 Microsoft	Key		Changed
🕀 🔚 Mozilla	Key		Added
Rolicies	Key		Changed
RegisteredApplications	Key		Changed
WOW6432Node	Key		Changed
System	Key		Changed
CurrentControlSet	Key		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.

Name Tyr HKEY_CLASSES_ROOT Sy HKEY_CURRENT_USER Sy Software Ke Classe Import registry Import registry Ke	ype ystem hive ystem hive jey	Value	State
HKEY_CLASSES_ROOT Sy HKEY_CURRENT_USER Sy Software Ke Classe Import registry Ke	ystem hive ystem hive ey		
B HKEY_CURRENT_USER Sy B Software Ke B Glasse Import registry B Micro: Export registry	ystem hive ey		
Software Ke Software Import registry Ke Export registry Ke Ke Ke Ke Ke Ke Ke Ke Ke K	ey		
Classe Import registry Ke Micro: Export registry Ke			Changed
Micro: Export registry Ke	ey		Changed
	ey		Changed
HKEY_LOCAL_	ystem hive		
SOFTWAR New value	ey		Changed
E Classe	ey		Changed
Glient Properties F2 Ke	ey		Changed
Micro: Move to	ey		Changed
Mozill Exclude Del	ey		Added
Add to exclusion filter	ey		Changed
Regist Delete Shift+Del Ke	ey		Changed
R WOW Ke	ey		Changed
System APPV virtualization level	ey		Changed
CurrentControlSet	ey		Changed
Sy http://users	ystem hive		
B DEFAULT Ke	e y		Changed
E Software Ke	e y		Changed



• Select **Delete** from the context menu of the excluded item, which you want to delete from the project.

Edit package - PKG-190	0430-144511.mgp							- C	x c
≡ MENU Packa	ge Files Shorto	uts\Apps	Registry	System resources					
Registry							Included: 108 values	V Collar	ose all
Name					Туре	Value		State	
HKEY_CLASSES_	ROOT				System hive				
HKEY_CURRENT	USER				System hive				
Software					Key			Changed	
🕀 🛄 Glasser	Import registry				Key			Changed	
Micros	Export registry				Key			Changed	
HKEY_LOCAL_	New key				System hive				
🖃 🚞 SOFTWARI	New value				Key			Changed	
Classes					Key			Changed	
Clients	Properties	F2			Key			Changed	
Micros	Move to				Key			Changed	
Mozilla	Include	Ins			Key			Added	
Policie	Add to exclusion filte	r	•		Key			Changed	
🕀 🔛 Registe	Delete	Shift+Del			Key			Changed	
€ WOW€					Key			Changed	
🖃 📕 System	APPV virtualization le	vel	P		Key			Changed	
Current	ControlSet				Key			Changed	
HKEY_USERS					System hive				
					Key			Changed	
Software	1				Key			Changed	
Add 🔺 [Delete								



4.8.4 Services

Choose a scenario that better suits your needs:

- Exclude Service, described in section 4.8.4.1 Exclude the unnecessary services from the project.
- Include Excluded Service, described in section 4.8.4.2 Include the necessary services, previously excluded from the project.
- Edit Service, described in section 4.8.4.3 Edit the service details such as display name, description, start type, parameters, event and error control.

4.8.4.1 Exclude Service

Exclude the unnecessary services from the project.

• Go to the System resources -> Services tab.

Edit package	e - PKG-190430-	144511.mgp	p			- 0	×
≡ menu	Package	Files	Shortcuts\Apps	Registry	System resources		
				Services	(1) Printers (0)) Environment variables (1)	
Services + Mozilla	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 Executable "C:\Program Files (x86)\Mozilla Maintenance Service\maintenanceservice.exe" Start parameters LocalSystem Dependencies:	





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 + Mozilia	Maintenance			<u>Services</u> (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: Start type Manual V Event Auto V Error control Normal V

4.8.4.2 Include Excluded Service

Include the necessary services, previously excluded from the project.

• Go to the System resources -> Services tab.

MENILI	Deeleese	Files		Desista	Sustan recourses	Т		
MENO	Раскаде	Files	Shortcuts(Apps	Registry	System resources			
				Services	(1) Printers (0)		Environment variables (1)	
ervices							Displayed name	
+ Mozilla	Maintenance						Mozilia Maintenance Service	
							Description	
							The Mozilla Maintenance Service ensures that you have the latest and most secure version	on
							Executable	
							"C:\Program Files (x86)\Mozilla Maintenance Service\maintenanceservice.exe"	
							Start parameters	
							LocalSystem	
							Dependencies:	
							Start type	
						;	Manual	
							Event	
							Auto	
							Error control	
							Normal	



To include, tick the checkbox, located before the service name.
 Edit package - PKG-190430-144511.mgp

- care package						
≡ menu	Package	Files	Shortcuts\Apps	Registry	System resources	
				Services	(1) Printers (0)	Environment variables (1)
Services	Maintenance			Services	(I) Printers (U)	Environment variables (i) Displayed name Mozilla Maintenance Service Description The Mozilla Maintenance Service ensures that you have the latest and most secure version of It Executable *C:\Program Files (x86)\Mozilla Maintenance Service\maintenanceservice.exe* Start parameters LocalSystem Dependencies: LocalSystem Dependencies: Kant type Manual Kevent Auto Fror control Normal

4.8.4.3 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						Mozina Maintenance Service
							Description
							The Mozilia Maintenance Service ensures that you have the latest and most secure version
							Executable
							"C:\Program Files (x86)\Mozilla 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-190430	-144511.mg	0			- 🗆 X
≡ MENU Package	Files	Shortcuts\Apps	Registry	System resources	
			Services	(1) Printers (0)	Environment variables (1)
Services + MoziliaMaintenance			services		
					Event Auto Fror control Normal V


4.8.5 Environment Variables

Choose a scenario that better suits your needs:

- Add Environment Variable, described in section 4.8.5.1 Add a new environment variable to the project.
- Remove Environment Variable, described in section 4.8.5.2 Remove an environment variable from the project.

4.8.5.1 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 actage BKG-19949-144511 mgs

Edit packag	e - PKG-190430-144	511.mgp							 	_	×
≡ menu	Package	Files Shortci	uts\Apps Regis	stry System res	ources						
			Se	ervices (1) Pri	inters (0)	Enviro	nment variables (2)			
	Name		Value		Ту	pe					
+ Var_1	Value 1				Machine	~					
+ Var_2	Value 2				User	~					
*		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 replace a value of the existing variable, do not use [~].

Edit package	e - PKG-19043	0-144511.mgp		-					_	Х
	Dackago	Files		Pagista	System recourses					
	гаскауе	Files	Shortcuts(Apps	Registry	system resources					
				Services	(1) Printers (0)	Enviro	nment variables (2)		
N	lame		Value	2		Туре				
+ Var_1	v	alue 1			M	achine	~			
+ Var_2	v	alue 2			Us	er	~			
🖍 🕂 MyVar	N	ly Value			M	achine	^			
					N	lachine				
					U	ser				
-										



4.8.5.2 Remove Environment Variable

Remove an environment variable from the project.

• <u>Go to the System resources -> Environment variables tab.</u>

dit package	e - PKG-19043	0-144511.mgp	p							-	
MENU	Package	Files	Shortcuts\Apps	Registry	System resou	irces					
				Services	(1) Printe	ers (0)	Environment	t variables (2)			
N	Name		Valu	le		Typ	pe				
+ Var_1 + Var_2	V	alue 1 alue 2				User	Ŭ				
i vor_z		0100.2				0.00					

• Select Delete from the context menu of a variable, which you want to remove.

© Edit package - PKG-190430-144511.mg	ngp	_	×
■ MENU Package Files	s Shortcuts\Apps Registry System resources		
	Services (1) Printers (0) Environment variables (2)		
Norma	Nuclear Sector		
+ Var 1 Value 1	Value Type Machine V		
+ Var_2 Value 2	User V		
*	Add Delete		



4.8.6 MSI Settings

Choose a scenario that better suits your needs:

- Set Application Details, described in section 4.8.6.1 Control how the package will be displayed in the App list (Add & Remove Programs).
- Set INSTALLDIR, described in section 4.8.6.2 Set a folder of the project as the INSTALLDIR.
- Shortcuts, described in section 4.8.6.3 Exclude/include, import new ones and edit existing shortcuts.
- File/Folder Permissions, described in section 4.8.6.4 Control which of files and folders permissions will be included into the package.
- Registry Permissions, described in section 4.8.6.5 Control which of registry permissions will be included into the package.
- Select Compression Type, described in section 4.8.6.6 Select the compression type for the package files.
- Use Advertising Tables, described in section 4.8.6.7 Select which of MSI advertizing tables will be used for storing the capturing registry.
- Add Active Setup, described in section 4.8.6.8 Intergrate the Active Setup to the MSI package automatically, if it contains per-user data.
- Set Summary Information, described in section 4.8.6.9 Set the default Summary Information values, which will be saved to each created MSI package.



4.8.6.1 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 - PKG-190430-144511.mgp										- 🗆	×
≡ MENU Package Files Sh	ortcuts\Apps	Registry	System resources	5							
		MSI	MST	UWP	А	PPV	THINAPP				
Application Details				Μ	ISI Pac	kage C	ptions				
Application name				MS	5I settings p	rofile					
Firefox				de	efault				~	Ed	it
Publisher				Pro	oject folder						
Mozilla				C	:\Users\pa	ace\Docur	ments\MSI Generator\Pack	ages\PKG-1	Browse	Go t	o
Version	Product lang	juage		MS	51 CodePage						
63.0.3	1033			0) Ne	utral					~
Product code				INS	STALLDIR						
{0A6CB50B-C191-4E46-B206-F07A76BAD	957}		New GUID								~
Upgrade code					BUILD	LOG	Detected MSI installations			Open	log
{99F27E0A-B935-4175-B70D-966E4D3020)30}		New GUID	÷ T	ype	Elapsed	Step				
Generate new codes when build MSI											
Summary Information											
Title	Subject										
Installation Database											
Author	Keywords										
	Install,MS	I									
Comments											
This installer database contains the logic a	nd data required	to install <pre>content</pre>	oduct name>.								
Platform	Languages										
Autodetect	✓ 0			Ela 00	psed time :00			🖸 Ope	n MSI	🔅 Build I	MSI

• Set application details such as application name (product name), version, publisher, language, package and upgrade codes.

Edit package - PKG-190430-144511.mgp							-	
≡ MENU Package Files Short	tcuts\Apps Registry	System resources						
	MSI	MST U	JWP	APPV	THINAPP			
Application Details			MSI Pa	ckage C	ptions			
Application name			MSI settings	profile				
Firefox			default				/	Edit
Publisher			Project folde	r				
Mozilla			C:\Users\	pace\Docur	ments\MSI Generator\Packages\PK	G-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	}	New GUID						~
Upgrade code			BUILI	DLOG	Detected MSI installations		C	Open log
{99F27E0A-B935-4175-B70D-966E4D302030}	}	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	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		Elanced tim	•				
Autodetect 🗸	· 0		00:00	c	- 12	Open MSI	🗳 Bu	uild MSI



4.8.6.2 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 S	hortcuts\Apps	Registry	System resources	5									
		MSI	MST	UWF	þ	APPV	THINA	PP					
Application Details					MSI P	ackage	Options						
Application name					MSI settin	gs profile							
Firefox					default					~		Edit	
Publisher					Project fol	der							
Mozilla					C:\User	s\pace\Doci	uments\MSI	Generator\Package	es\PKG-1	Browse	G	o to	
Version	Product lang	guage			MSI Code	Page							
63.0.3	1033				0	Neutral							~
Product code					INSTALLD	IR							
{0A6CB50B-C191-4E46-B206-F07A76BAD	957}		New GUID										~
Upgrade code					BUI	LD LOG	Detected	MSI installations			Op	en lo	g
{99F27E0A-B935-4175-B70D-966E4D302	030}		New GUID	-	Туре	Elapsed	St	2p					
☑ Generate new codes when build MSI													
Summary Information													
Title	Subject												
Installation Database													
Author	Keywords												
	Install,MS	l											
Comments													
This installer database contains the logic	and data required	d to install <pre>c</pre>	oduct name>.										
Platform	Languages												
Autodetect	✓ 0				Elapsed ti 00:00	me			🖸 Oper	n MSI (🕉 Buil	d MS	

• Select the INSTALLDIR path from the list.

Edit package - PKG-190430-144511.mgp				-	
≡ MENU Package Files Short	cuts\Apps Registry	System resources			
	MSI	MST U	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	G	o to
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		Elected fires		
Autodetect 🗸	0		00:00 Copen MSI C	🕉 Buil	d MSI

4.8.6.3 Shortcuts

Choose a scenario that better suits your needs:

- Exclude Shortcut, described in section 4.8.6.3.1 Exclude the unnecessary shortcuts from the project
- Include Excluded Shortcut, described in section 4.8.6.3.2 Include the necessary shortcuts, previously excluded from the project.
- Add Shortcut, described in section 4.8.6.3.3 Add new MSI shortcut to the project.
- Import Shortcut, described in section 4.8.6.3.4 Import shortcuts from the file system to the project.
- Move Shotcut, described in section 4.8.6.3.5 Move a shortcut from one folder to another.
- Edit Shortcut, described in section 4.8.6.3.6 Edit the shortcut detail such as name, destination folder, shortcut type, icon, etc.
- Delete Shortcut, described in section 4.8.6.3.7 Delete an MSI shortcut from the project.

4.8.6.3.1 Exclude Shortcut

Exclude the unnecessary shortcuts from the project.

• Go to the Shortcuts\Apps -> MSI tab.

Edit package - PKG-190430-144511.mgp							-		
MENU Package Files	Shortcuts\Apps	Registry	System resourc	es					
			MSI	UWP	APPV				
ACL abortauta							∇		- 11
						Included: 1 shortcu	t V CO	napse a	311
Name					Туре	Target	State		
C:					Folder		Changed		Ļ
Program Files (x86)					Folder		Changed		
ProgramData					Folder		Changed		
Microsoft					Folder		Changed		
Search					Folder		Changed		
Windows					Folder		Changed		
Start Menu					Folder		Changed		
Programs					Folder		Changed		
E Firefox.Ink					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added		
wtp					Folder		Changed		
Windows Defender					Folder		Changed		
Users					Folder		Changed		
pace					Folder		Changed		
					Folder		Changed		
Desktop					Folder		Changed		
					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added		
Windows					Folder		Changed		
Add Exclude									



 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 UWP APPV MSI UWP APPV MSI Shortcuts Included: 1 shortcut Included: 1 shortcut Name Type Target Statt Image: Cr Folder Chait Folder Chait Image: Program Files (x86) Folder Chait Chait Chait Chait Image: Program Stat Folder Folder Chait Chait <th></th>	
MSI UWP APPU MSI UWP APPU MSI Dicluded: 1 shortcut Import Name Type Target Statt Organ Folder Folder Chail Program Files (x86) Folder Folder Chail Program Stat Folder Folder Chail Windows Folder Folder Chail Programs Folder Chail Programs Folder Chail Windows: Defender Import shortcuts Folder Ww subfolder Folder Chail W windows: Defender F2 Folder Chail	
MSI shortcuts Included: 1 shortcut Image: 1 shortcut	
Mare Type Target State ■ C Folder Folder Cha ■ Program Files (x86) Folder Cha ■ Program Siles (x86) Folder Cha ■ Program Siles (x86) Folder Cha ■ Microsoft Folder Cha ■ Windows Folder Cha ■ Windows Folder Cha ■ Windows Folder Cha ■ Windows Folder Cha ■ Programs Folder Cha ■ Windows Defender Import shortcuts Folder ● Windows Defender New subfolder Folder Cha ● Users New subfolder Folder Cha ● Dablic Properties F2 Folder Cha	7
Name Type Target Statu B C Folder Folder Chai B Program Files (x66) Folder Folder Chai B Program Files (x66) Folder Folder Chai B Program Data Folder Folder Chai B Microsoft Folder Folder Chai B Start Menu Folder Folder Chai B Programs Folder Chai Chai B Windows-Defender New shortcut Folder Chai B Pace Properties F2 Folder Chai B Pace Folder Folder Chai Chai	Collapse all
G Folder Chail B Program Files (x66) Folder Chail B Program Data Folder Chail Chail B Microsoft Folder Chail Chail B Windows Folder Chail Chail B Windows Folder Chail Chail B Programs Folder Chail Chail B Programs Folder Chail Chail B Programs Folder Chail Chail B Windows-Defender New subfolder Folder Chail B Pasce Properties F2 Folder Chail	State
B Program Files (x86) Folder Chail B ProgramData Folder Chail B Microsoft Folder Chail B Microsoft Folder Chail B Microsoft Folder Chail B Microsoft Folder Chail B Windows Folder Chail B Start Menu Folder Chail B Programs Folder Chail Mindows-Defender New subfolder Folder Chail Windows-Defender New subfolder Folder Chail Propreties F2 Folder Chail	Changed
ProgramData Folder Folder Cha Microsoft Folder Folder Cha Image: Search Folder Cha Cha Image: Search New shortcut Folder Cha Image: Search New subfolder Folder Cha Image: Search New subfolder Folder Cha Image: Sea	Changed
Microsoft Folder Folder Cha B Search Folder Cha Cha B Windows Folder Cha Cha B Windows Folder Cha Cha B Start Menu Folder Cha Cha B Start Menu Folder Cha Cha B Programs Folder Cha Cha Mindows-Defender Import shortcuts Shortcut CAProgram Files (x86)/Mozilla Firefox/firefox.exe Add B Windows-Defender New shortcut Folder Cha Wu Users New subfolder Folder Cha Cha B pace Properties F2 Folder Cha	Changed
Beach Folder Folder Cha Image: Search Folder Folder Cha Cha Image: Start Menu Folder Folder Cha Cha Image: Start Menu Folder Folder Cha Cha Image: Forgen: Start Menu Folder Folder Cha Cha Image: Forgen: Start Menu Shortcut CA Cha Cha Cha Image: Forgen: Start Menu Image: Start Menu Shortcut CA Cha	Changed
Windows Folder Chai Start Menu Folder Folder Chai Programs Folder Folder Chai Import shortcuts Shortcut CAProgram Files (x86)\Mozilia Firefox\firefox.exe Add Import shortcuts Folder CAProgram Files (x86)\Mozilia Firefox\firefox.exe Add Import shortcuts Folder Folder Chai Users New subfolder Folder Chai Import shortcut Folder Folder Chai Properties F2 Folder Chai	Changed
Start Menu Folder Cha Programs Folder Cha Firefox.ink Shortcut CAProgram Files (x86)\Mozilia Firefox/tirefox.exe Add Import shortcuts New shortcut Folder Cha Import shortcuts New subfolder Folder Cha Import shortcut Folder Folder Cha Import shortcuts New subfolder Folder Cha Import shortcut Folder Folder Cha	Changed
Programs Folder Char Import shortcuts Shortcut C\Program Files (x86)\Mozilia Firefox.firefox.exe Add Import shortcuts New shortcut Folder Char Char Import shortcuts New subfolder Folder Char Char Import shortcuts New subfolder Folder Char Char Import shortcut Folder Folder Char Char Import shortcut Folder Folder Char	Changed
Shortcut CAProgram Files (x86)/Mozilla Firefox/firefox.exe Add • #p • Mindows-Defender • Users • New subfolder • Revision • Properties F2 • Folder • Fo	Changed
Windows-Defender New shortcut Folder Folder Cha Windows-Defender New shortcut Folder Cha Cha Windows-Defender New subfolder Folder Cha Windows-Defender New subfolder Folder Cha Windows-Defender Properties F2 Folder Cha	Added
Image: Second	Changed
Image: Construction Properties F2 Folder Char Image: Construction Properties F2 Folder Char	Changed
B Dublic Properties F2 router Cha	Changed
	Changed
Move to folder Folder	Changed
Exclude Del Character Elser (v65) Manual Elser Ended in Character Elser (v65) Manual Elser Els	Added
R Windows Add to exclusion filter	Changed
Delete Shift+Del	changed

4.8.6.3.2 Include Excluded Shortcut

Include the necessary shortcuts, previously excluded from the project.

• Go to the Shortcuts\Apps -> MSI tab.

ISI shoi	rtcuts				Included: 1 shortcu	ut 💙 Collapse :
ame				Туре	Target	State
- C:				Folder		Changed
• 📄 P	rogram Files (x86)			Folder		Changed
e P	rogramData			Folder		Changed
	Microsoft			Folder		Changed
G	E Search			Folder		Changed
G	Windows			Folder		Changed
	🖃 🦳 Start Menu			Folder		Changed
	Program	ms		Folder		Changed
	🍯 Fire	efox.ink		Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp			Folder		Changed
G	Windows Defe	nder		Folder		Changed
🗆 🛄 U	lsers			Folder		Changed
•	pace			Folder		Changed
	Public			Folder		Changed
G	Desktop			Folder		Changed
	👌 Firefox.Ink			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

Fear package The Isolae	51						
■ MENU Package	Files Shortcuts\A	ops Registry	System resource	es			
			MSI	UWP	APPV		
MSI shortcuts						Included: 1 shortcut	V Collapse all
Name					Туре	Target	State
🖃 🔤 C:					Folder		Changed
Program Files (x86	5)				Folder		Changed
🖃 📄 ProgramData					Folder		Changed
Microsoft					Folder		Changed
Search					Folder		Changed
Windows					Folder		Changed
Start M	/lenu				Folder		Changed
🖃 Pr	ograms				Folder		Changed
	Firefox.ink				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	Defender				Folder		Changed
	Perender				Folder		Changed
					Folder		Changed
pace					Folder		Changed
					Folder		Changed
Eirefo	uln ^y				Shortcut	C\Program Files (v86)\Mozilla Firefox\firefox.exe	Added
Windows	Import shortcuts				Folder	or program they (soly provide the low precionere	Changed
	New shortcut				roider		changed
	New subfolder						
	Properties	FZ					
	Move to folder						
	Include	Ins					
	Add to exclusion fill	er 🕨					
Add 🔺 Delet	e Delete	Shift+Del					

_

4.8.6.3.3 Add Shortcut

Add new MSI shortcut to the project.

• Go to the Shortcuts\Apps -> MSI tab.

Edit package -	- PKG-190430-144511.m	3b						- 🗆
MENU	Package Files	Shortcuts\Apps	Registry	System resources				
				MSI	UWP	APPV		
1SI short	tcuts						Included: 1 shortcu	Collapse all
Vame						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.In	k				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp					Folder		Changed
÷	Windows Defender					Folder		Changed
🖃 🛄 Use	ers					Folder		Changed
•	pace					Folder		Changed
8	Public					Folder		Changed
=	Desktop					Folder		Changed
	🍯 Firefox.Ink					Shortcut	Ci\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
🛨 📄 Wi	ndows					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 packag	e - PKG-190430-14	44511.mg	1p						- 0	×
	Package	Files	Shortcuts\Apps	Registry	System resources	5				
					MSI	UWP	APPV			
MSI sho	ortcuts							Included: 1 shortcut	V Collaps	se 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 Me	enu					Folder		Changed	
	E Pro	grams					Folder		Changed	
	6	Firefox.	Import shortcuts				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added	
	wfp		New shortcut				Folder		Changed	
	Windows D	efender	New subfolder				Folder		Changed	
	Users		Properties	F2			Folder		Changed	
۲	pace		Move to folder				Folder		Changed	
	Public		Exclude	Dol			Folder		Changed	
	Desktop		Adda and a char	Dei			Folder		Changed	
	🕹 Firefox.l	Ink	Add to exclusion filter	•			Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added	
۰ 🗈 🗋	Windows		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			
Name			
			0
Target (installation) folder			
C:\ProgramData\Microsoft\Windows\Start Menu\Programs		Browse	
Details Shortcut type Advertised shortcut Pequilar (non-advertised) shortcut			
Shortcut target			
		Browse	
Arguments			
Start in (WkDir)			
		Browse	
Run			
Normal window			~
Save Cancel			



4.8.6.3.4 Import Shortcut

Import shortcuts from the file system to the project.

• Go to the Shortcuts\Apps -> MSI tab.

SI Shortcuts		Included: 1 shortcut	V Collapse a
me	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.lnk	Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	Folder		Changed
Windows Detender	Folder		Changed
	Folder		Changed
	Folder		Changed
	Folder		Changed
Desktop Einefex late	Folder	CADes was a file (ADD) to file firster firster firster and	Changed
	Solder	C\/Program_Files (X86)\/viozilia_Firefox\/lifefox.exe	Acceo
	TOILLEI		changeu

• 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
😑 📄 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
t _ pac	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
Window		Delete	biint bei			Folder		Changed
Add 🔺	Exclude							



• Choose an LNK shortcut, which you want to import and click **Open**.

Browse to file with	n icon					×
← → • ↑ 📘	« Loo	cal Disk (C:) > Users > P	ublic > Public Desktop	∽ Č	Search Public Desktop	Ą
Organize 🔻 Ne	w folde	r				•
🕹 Quick access		Name	Date	Туре	Size Tags	
Deelte a		😥 Docu Generator	2/27/2017 3:06 PM	Shortcut	3 KB	
Desktop	Ħ	👧 Mozilla Firefox	2/27/2017 3:57 PM	Shortcut	2 KB	
👆 Downloads	*	😥 MSI Editor	2/27/2017 3:06 PM	Shortcut	3 KB	
🔮 Documents	*	🗊 MSI Generator	2/27/2017 3:06 PM	Shortcut	3 KB	
Pictures	*					
🐔 OneDrive						
💻 This PC						
鹶 Network						
• 4 Homegroup						
	File <u>n</u> a	me: MSI Generator		~	Shortcuts (*.lnk)	~
		L			<u>O</u> pen Canc	el

4.8.6.3.5 Move Shotcut

Move a shortcut from one folder to another.

• Go to the Shortcuts\Apps -> MSI tab.

	- PK3-190430-144511.mgp	,						- 0
MENU	Package Files	Shortcuts\Apps	Registry	System resourc	es			
				MSI	UWP	APPV		
ISI chor	touto			·				
151 51101	icuis						Included: I shortcu	t Collapse a
ame						Туре	Target	State
- C:						Folder		Changed
E Pro	ogram Files (x86)					Folder		Changed
E Pro	ogramData					Folder		Changed
8	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
🖃 🛄 Us	sers					Folder		Changed
•	pace					Folder		Changed
Ξ.	Public					Folder		Changed
=	Desktop					Folder		Changed
	🕑 Firefox.Ink					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
• 🗆 W	indows					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.

😂 Ed	it package	- PKG-190430-1	44511.mgp							_		×
≡м	IENU	Package	Files	Shortcuts\Apps	Registry S	System resources						
MS	51 shor	tcuts				MSI	UWP	APPV	Included: 1 shortcut	V	Collaps	e all
No								Turna	Tarnat	State		
ING								Type	laiget	Change		
	i Ci Pi	rogram Files (v86	1					Folder		Chang	ed of	
	E P	rogramData						Folder		Chang	ed	
		Microsoft						Folder		Chang	ed	
	9	Search						Folder		Chang	ed	
	G	- Windows						Folder		Chang	ed	
		Start M	lenu					Folder		Chang	ed	
		- Pro	grams					Folder		Chang	ed	
		6	Firefox.Ink					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added	í	
		🛄 wfp		Import shortcuts				Folder		Chang	ed	
		Windows E	efender	New shortcut				Folder		Chang	ed	
	🖃 🗋 U	sers		New subfolder				Folder		Chang	ed	
	•	pace		Properties	F2			Folder		Chang	ed	
		Public		Move to folder				Folder		Chang	ed	
	G	Desktop		Exclude	Del			Folder		Chang	ed	
		Firefox	link	Add to exclusion f	filter	•		Shortcut	Ci\Program Files (x86)\Mozilla Firefox\firefox.exe	Added		
	± _ V	/indows		Delete	Shift+Del			Folder		Chang	ed	
	Add •	Evelue	a									
	HUU 🔺	Exclud	e									

• 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		
G Start Menu		
Programs		
wfp		
pace		
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.



4.8.6.3.6 Edit Shortcut

Edit the shortcut detail such as name, destination folder, shortcut type, icon, etc.

• Go to the Shortcuts\Apps -> MSI tab.

	PKG-190430-144511.mgp	1						- 🗆
MENU	Package Files	Shortcuts\Apps	Registry	System resource	15			
				MSI	UWP	APPV		
VISI short	cuts						Included: 1 shortcu	Collapse all
Name						Туре	Target	State
🖃 🔤 C:						Folder		Changed
🕀 📄 Prog	gram Files (x86)					Folder		Changed
E Prog	gramData					Folder		Changed
8	Microsoft					Folder		Changed
H	Search					Folder		Changed
	Windows					Folder		Changed
	Start Menu					Folder		Changed
	Programs					Folder		Changed
	ۏ Firefox.Ink					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wfp					Folder		Changed
H	Windows Defender					Folder		Changed
🖃 🔄 User	rs					Folder		Changed
• 🗀 I	pace					Folder		Changed
B []	Public					Folder		Changed
Ξ.	Desktop					Folder		Changed
	실 Firefox.Ink					Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
🕀 📄 Wine	dows					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 Re	gistry	System resource	s			
					MSI	UWP	APPV		
MCLaba	rtauta								
	incuts							Included: 1 shortcut	Collapse all
Name							Туре	Target	State
🖃 🔤 C:							Folder		Changed
• - •	Program Files (x86))					Folder		Changed
	ProgramData						Folder		Changed
	Microsoft						Folder		Changed
	Search						Folder		Changed
	Windows						Folder		Changed
	Start M	lenu					Folder		Changed
	Pro	grams					Folder		Changed
		Firefox.Ink	Import shortcuts				Shortcut	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Added
	wtp		New shortcut				Folder		Changed
	Windows-L	etender	New subfolder				Folder		Changed
	Users		New Subiolder		_		Folder		Changed
	pace		Properties	F2			Folder		Changed
	Public		Move to folder				Folder		Changed
	Eirefox	lok	Exclude	Del			Folder	CABrogram Files (v96)) Maxilla Firefey ave	Added
	Windows	iiiiik	Add to exclusion filte	r	•		Enider	Gtyrogram riles (xoo) (Mozilla Firefox (illefox.exe	Changed
	WINDOWS		Delete	Shift+Del			Folder		Changed
Add 🔺	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			



4.8.6.3.7 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 Windows Folder Changed Changed Wore 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 Word 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				Type	laiget	State	
Image: Program State Folder Charged Image: Program State Folder	E 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 Folder Integration Folder Integration Shortcut Integration Changed Integration Folder Integration Shortcut Integration Shortcut Integration Changed Integration Folder Integration Shortcut Integration Changed Integration Shortcut Integration Changed Integration Shortcut Integration Changed Integration Folder Integration Changed Integration Folder Integration Changed Integration Folder Integration Changed Integration	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 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	



4.8.6.4 File/Folder Permissions

Choose a scenario that better suits your needs:

- Set Permissions, described in section 4.8.6.4.1 Set custom permissions for a file or folder.
- Remove Permissions, described in section 4.8.6.4.2 Remove the custom permissions from a file or folder.

4.8.6.4.1 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.

			Incl	uded: 111 files (158,8	MB) 💙 Collapse
lame			Туре	Size	State
B C:			Folder		Changed
Program Files (x86)			Folder		Changed
🗈 📗 Mozilla Firefox			Folder		Added
🖃 📗 Mozilla Mainten 🛛 İmport fil	es		Folder		Added
∎	older		Folder		Added
maintenance Propertie	s f	-2	EXE	197,4 KB	Added
Uninstall.exe Move to t	folder	-	EXE	87,5-KB	Added
updater.ini	roidei		INI	1,2 KB	Added
ProgramData	ulunian filana	Jei	Folder		Changed
Microsoft Add to ex	clusion filter		Folder		Changed
Search Delete	5	Shift+Del	Folder		Changed
Windows APPV virt	ualization level	•	Folder		Changed
Start Menu			Folder		Changed
🗉 🛄 wfp			Folder		Changed
Windows-Defender			Folder		Changed
			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			_		×
	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 t	to obj his cor	ects ntainer o	only
		Apply 'Deny' permissions	to obie	ects	-
Add Remove		and/or containers within t	his cor	ntainer o	only
Enable 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			- 0	>
	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 to and/or containers within this	objects container	r only
		Apply 'Deny' permissions to	objects	
Add Remov	e	and/or containers within this	s container	only
Enable inheritance				
Propagate inheritable permiss	ions 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.

		opagatea asing the seel		01.	
Properties			-		×
	General	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		✓	
		Write		\checkmark	
		Special permissions			
		Select special permissions			
		Apply 'Allow' permissions and/or containers within t	to obj his cor	ects ntainer (only
Add Remove	2	 Apply 'Deny' permissions and/or containers within t 	to obje his cor	ects htainer (only
Enable inheritance					
Propagate inheritable permissi	ons to all su	ubfolders and files			~
	Save	Cancel			
L					

4.8.6.4.2 Remove Permissions

Remove the custom permissions from a file or folder.



• Go to the Files tab.

Files and folders	Ir	ncluded: 111 files (158,	B 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	Folder		Added
maintenanceservice.exe	EXE	197,4 KB	Added
Uninstall.exe	EXE	87,5 KB	Added
📄 updater.ini	INI	1,2 KB	Added
🖃 🧰 ProgramData	Folder		Changed
E Microsoft	Folder		Changed
🗈 🛅 Search	Folder		Changed
Windows	Folder		Changed
🗈 🔝 Start Menu	Folder		Changed
🕀 🗋 wfp	Folder		Changed
Windows Defender	Folder		Changed
	Folder		Changed
B Windows	Folder		Changed
appcompat	Folder		Ghanged
Prefetch	Folder		Ghanged
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.

Elles and folders		la aludadi 111 filas (150 0 MP)	
	-	Hide empty folders	Conapse an
Name	Total	Hide evolution items	and a set
C: Program Files (y86)	Folde	Hide excluded items	iged
Mozilla Firefox	Folde	Hide items without permission	ns ged
Mozilla Maintenance Service	Folde	Hide added files	ed
🕀 🫅 logs	Folde	Hido chapaged files	łd
aintenanceservice.exe	EXE	nide changed files	ed
Uninstall.exe	EXE	Hide removed files	łd
📄 updater.ini	INI Cle	ear filter	٤d
E ProgramData	Folder		Changed
Microsoft	Folder		Changed
🕞 🔄 Search	Folder		Changed
Windows	Folder		Changed
🗈 🔤 Start Menu	Folder		Changed
	Folder		Changed
Bystem32	Folder		Changed
😠 🗀 Temp	Folder		Changed
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			_		×
	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 t and/or containers within th	o obj nis cor	ects ntainer (only
		Apply 'Deny' permissions to	o obi	ects	
Add Remove		and/or containers within th	nis cor	ntainer	only
Enable inheritance					
Propagate inheritable permissi	ons to all su	ubfolders and files			~
	Save	Cancel			



• Untick the Enable permission changes checkbox and click Save.

Properties		- 0	>
Gen	neral Permissions		
Enable permission changes			
Group/SID	Access rights	Allov	v 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 th	o objects iis containe	r only
Add Remove	Apply 'Deny' permissions to and/or containers within th	o objects iis containe	r only
I Enable inheritance			
Propagate inheritable permissions to	o all subfolders and files		\sim
	Save Cancel		

4.8.6.5 Registry Permissions

Choose a scenario that better suits your needs:

- Set Permissions, described in section 4.8.6.5.1 Set custom permissions for a registry key.
- **Remove Permissions**, described in section 4.8.6.5.2 Remove the custom permissions from a registry key.

4.8.6.5.1 Set Permissions

Set custom permissions 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		
🖃 🔚 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
Registered Applications	Key		Changed
🗉 🔤 WOW6432Node	Key		Changed
🖃 🔤 System	Key		Changed
CurrentControlSet	Key		Changed
	System hive		
🖬 🛄 "ÐEFAULT	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				- 🗆 X
≡ MENU Package Files Shortcuts\Apps Re	gistry System resources			
Registry			Included: 113 va	alues 💙 Collapse all
Name		Туре	Value	State
HKEY_CLASSES_ROOT		System hive		
HKEY_CURRENT_USER		System hive		
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 Import registry		Key		Changed
Registere Export registry		Key		Changed
WOW643 New key		Key		Changed
System New value		Key		Changed
CurrentCo		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 level				
Add • Exclude				



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

Properties		I	_		×
	General	Permissions			
Enable permission changes					
Group/SID		Access rights Full control Read Special permissions		Allow	Deny
		Select special permissions Apply 'Allow' permissions to and/or containers within th Apply 'Deny' permissions to	o objec is conta	tts ainer (only
Add Remove		and/or containers within th	is conta	ainer	only
Propagate inheritable permissi	ons to all s	ubkeys and values			~
	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		
Ger	neral Permissions	
Enable permission changes		
Group/SID	Access rights Full control Read Special permissions	Allow Deny
	Select special permissions	to objects his container only
Add Remove	Apply 'Deny' permissions t and/or containers within th	to objects his container only
Enable inheritance		
Propagate inheritable permissions t	o all subkeys 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.

TOTE THE SEE PETTISSIONS WILL	se propagated using the secre	ant 1001.	
Properties		- 🗆	×
Ger	neral Permissions		
Enable permission changes			
Group/SID	Access rights	Allow	v Deny
Built-in users (BU)	Full control	\checkmark	
	Read	\checkmark	
	Special permissions		
Add Remove	Select special permissions	to objects his container to objects his container	r only r only
Dranapata inheritable parriariant t	o all sublaus and values		
Propagate inneritable permissions to	o all subkeys and values		~
	Save Cancel		

4.8.6.5.2 Remove Permissions

Remove the custom permissions from a registry key.



Go to the Registry tab. •

© Edit package - PKG-190430-144511.mgp			- 🗆 ×
Registry		Included: 113 values	Collapse all
Name	Туре	Value	State
HKEY_CLASSES_ROOT	System hive		
HKEY_CURRENT_USER	System hive		
🖃 🔚 Software	Key		Changed
Classes	Key		Changed
🗈 🔚 Microsoft	Кеу		Changed
HKEY_LOCAL_MACHINE	System hive		
SOFTWARE	Кеу		Changed
Classes	Кеу		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		
	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			- U X
≡ MENU Package Files Shortcuts\Apps Registry System resources			
Registry		lacludad: 112. valuae	Collapse all
Name	Туре	Hide excluded items	State
HKEY_CLASSES_ROOT	System hive	Hide items without permissions	
HKEY_CURRENT_USER	System hive		
🖃 🔚 Software	Кеу	Hide added registry values	Changed
Glasses	Key	Hide changed registry values	Changed
Microsoft	Key		Changed
HKEY_LOCAL_MACHINE	System hive	Hide removed registry values	
SOFTWARE	Key Cle	ear filter	Changed
Classes	Key		- Changed
🕀 🔜 Clients	Key		Changed
Microsoft	Key		Changed
🕢 🔳 🔍 Mozilia	Key		Added
Policies	Key		Changed
Registered Applications	Key		Changed
WOW6432Node	Key		Changed
System	Key		Changed
CurrentControlSet	Key		Changed
	System hive		
	Key		Changed
Software	Key		Changed
Add			



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

Edit package - PKG-1904	80-144511.mgp						_		×
≡ MENU Package	Files Shortcut	s\Apps Registry	System resources						
Registry						Included: 113 values	V Co	llapse al	d.
Name				Туре	Value		State		
HKEY_CLASSES_RO	от			System hive					
HKEY_CURRENT_U	SER			System hive					
🖃 🔚 Software				Key			Changed		
€ Classes				Key			Changed		
🗉 🔚 Microsoft				Key			Changed		
HKEY_LOCAL_MAC	HINE			System hive					
SOFTWARE				Key			Changed		
Classes				Key			Changed		
Clients				Key			Changed		
Microsoft				Key			Changed		_
🕀 🔤 🔍 Mozilla	Import register			Key			Added		_
Policies	Even entre entre sinter :			Key			Changed		
Registered	Export registry			Key			Changed		
€ WOW6432	New key			Key			Changed		
System	New value			Key			Changed		
	Deservation	50		Key Gustana biya			Changed		
	Move to	F2		Key			Changed		
	Iviove to	Del		Key			Changed		
	Exclude	Dei		wy			enangea		
	Add to exclusion filte	er 🕨							
	Delete	Shift+Del							
	APPV virtualization le	evel 🕨							
Add 🔺 Exc	lude								

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

Properties	– – ×
General	Permissions
Enable permission changes	
Group/SID	Access rights Allow Deny
Built-in users (BU)	Full control
	Read 🗹 🗌
	Special permissions
	Select special permissions
Add Remove	and/or containers within this container only
Enable inheritance	
Propagate inheritable permissions to all su	ubkeys and values 🗸
Save	Cancel



• Untick the Enable permission changes checkbox and click Save.

ndek ale Endble permission endig				
Properties		_		×
General	Permissions			
Enable permission changes				
Group/SID	Access rights	4	llow	Deny
Built-in users (BU)	Full control		\checkmark	
	Read		\checkmark	
	Special permissions			
	Select special permissions	o object	ts	only
	Apply 'Deny' permissions to	o obiect	s	2
Add Remove	and/or containers within th	is conta	iner o	only
☑ Enable inheritance				
Propagate inheritable permissions to all su	ubkeys and values			\sim
Save	Cancel			



4.8.6.6 Select Compression Type

Select the compression type for the package files.

• Go to the Package -> MSI tab.

Edit package - PKG-190430-144511.mgp			- L X
	uts\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-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 <pro< th=""><td>duct name>.</td><td></td></pro<>	duct 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			- 🗆 X
■ MENU Package Files Shortc	cuts\Apps Registry S	System resources	rs
	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 o	data required to install <produc< td=""><td>ct name>.</td><td></td></produc<>	ct name>.	
Platform	Languages		
Autodetect 🗸	0		00:00 Den MSI C Open MSI





٥

• 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	D
Summary Information	MSI compression	
Registry	Compressed in MSI	~
Properties	 Administrative image MSI CodePage 	
Per-User data	0 Neutral	~
INI files	□ Fill in MsiFileHash table ✓ Check for .Net and WinSxS Assemblies	
Merge Modules		
Permissions		
Transforms		
	Save Cancel	



4.8.6.7 Use Advertising Tables

Select which of MSI advertizing tables will be used for storing the capturing registry.

• <u>Go to the Package -> MSI tab.</u>

Edit package - PKG-190430-144511.mgp										-	
≡ MENU Package Files Sh	ortcuts\Apps	Registry	System resources	5							
		MSI	MST	UWP	ļ	APPV	THI	NAPP			
Application Details				Μ	ISI Pad	kage C	ptio	ns			
Application name				MS	I settings	profile					
Firefox				de	fault					~	Edit
Publisher				Pro	ject folde	T					
Mozilla				C:	:\Users\p	ace\Docur	ments\/	/ISI Generator\Packages\Pi	KG-1 Browse		Go to
Version	Product lan	guage		MS	I CodePag	e					
63.0.3	1033			0	N	eutral					×
Product code				INS	TALLDIR						
{0A6CB50B-C191-4E46-B206-F07A76BAD	957}		New GUID								~
Upgrade code					BUILD	LOG	Detect	ed MSI installations			Open log
{99F27E0A-B935-4175-B70D-966E4D3020	30}		New GUID	Ету	/pe	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 a	nd data required	d to install <pre>r</pre>	oduct name>.								
Platform	Languages			_							
Autodetect	✓ 0			Elap 00:/	psed time 00				Open MSI	ψ	Build MSI

• Click Edit, located next to the MSI settings profile field.

Edit package - PKG-190430-144511.mgp			– 🗆 X
	cuts\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
\blacksquare 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 <pro< th=""><td>duct name>.</td><td></td></pro<>	duct name>.	
Platform	Languages		
Autodetect 🗸	0		00:00

• 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	I Proald	√ Verb	1		
Summary Information	Class		/IME	TypeLib				
Registry	Use ODBC Table							
Properties	ODBC data sources							
Per-User data	installation in some cases (e.g. if an ODBC driver is not found on the system or if a database is not accessible)							
INI files	Services							
Merge Modules	Install serv	vices by						
Permissions	ServiceInstall table							
Transforms								
		ave	Cance	2				



4.8.6.8 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\F	KG-1 Brows	e	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			2 On MCI	చ	D. J. MCI

• Click Edit, located next to the MSI settings profile field.

© Edit package - PKG-190430-144511.mgp			- O X
	cuts\Apps Registry	System resources	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 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 o	data required to install <produ< td=""><td>uct name>.</td><td></td></produ<>	uct name>.	
Platform	Languages		
Autodetect 🗸	0		00:00 Copen MSI


• Go to the Per-User data tab and tick the Add Active Setup to propagate per-user data option. Then click Save.

NOTE If the project contains per-user data, the Active Setup will be automatically integrated.

MSI settings profile		×
Profile name		
default		
General	User-Part feature name UserPart	
Summary Information	User-Part component name	
Registry	CurrentUser	
Properties	Add Active Setup to propagate per-user data	
Per-User data	Create empty per-user folders on install Remove empty per-user folders on uninstall	
INI files		
Merge Modules		
Permissions		
Transforms		
	Save Cancel	



4.8.6.9 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										-	
≡ MENU Package Files S	Shortcuts\Apps	Registry	System resource	S							
		MSI	MST	UW	P	APPV	THI	NAPP			
Application Details					MSI Pa	ckage (Optio	ns			
Application name					MSI settings	profile					
Firefox					default					~	Edit
Publisher					Project folde	er					
Mozilla					C:\Users\	pace\Docu	ments\/	/ISI Generator\Packages\PI	KG-1 Browse	e	Go to
Version	Product langu	age			MSI CodePa	ge					
63.0.3	1033				0 N	leutral					
Product code					INSTALLDIR						
{0A6CB50B-C191-4E46-B206-F07A76BA	D957}		New GUID								
Upgrade code					BUIL	DLOG	Detect	ed MSI installations			Open log
{99F27E0A-B935-4175-B70D-966E4D302	2030}		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 data required t	o install <pre>co</pre>	oduct name>.								
Platform	Languages										
Autodetect	✓ 0				Elapsed tim 00:00	e		E	Open MSI	¢	Build MSI

• 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	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 V
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
\blacksquare 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 <pro< td=""><td>duct name>.</td><td></td></pro<>	duct name>.	
Platform	Languages		
Autodetect 🗸	0		00:00 Copen MSI C 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	
	Title
General	Installation Database
Summary Information	Author
Registry	
Properties	Subject
Per-User data	Comments
INI files	This installer database contains the logic and data required to install <product name="">.</product>
Merge Modules	Keywords
Permissions	Install,MSI
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 Shorto	cuts\Apps Registry	System resources										
	MSI	MST	UWP	A	PPV	TH	HINAPP					
Application Details				MSI Pac	kage (Optio	ons					
Application name			. F	MSI settings p	orofile							
Firefox				default						~	Edit	t
Publisher			_	Project folder								
Mozilla				C:\Users\p	ace\Docu	uments	MSI Generator	\Packages\PKG-1	Browse		Go to	D
Version	Product language			MSI CodePage	e							
63.0.3	1033			0 Ne	eutral							~
Product code				INSTALLDIR								
{0A6CB50B-C191-4E46-B206-F07A76BAD957}		New GUID										~
Upgrade code				BUILD	LOG	Dete	cted MSI installat	ions			Open	log
{99F27E0A-B935-4175-B70D-966E4D302030}		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 o	data required to install <produ< td=""><td>uct name>.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></produ<>	uct name>.										
Platform	Languages											
Autodetect 🗸	0			clapsed time 00:00				C o	pen MSI	¢	Build N	/ISI

4.8.6.10 Intergrate Merge Modules

Enable the automatic accurate detection and easy integration of suitable Merge Modules into your MSI during package building.



• Go to the Package -> MSI tab.

Edit package	e - PKG-190430-	144511.mg	р											-		×
	Package	Files	Shortcut	s\Apps	Registry	System resource	s									
					MSI	MST	UWP		APPV	THI	NAPP					
Applicatio	on Detail	s						MSI Pa	ackage (Optio	ns					
Application nam	ie							MSI setting	s profile							
Firefox								default					~		Edit	
Publisher								Project fold	ler							
Mozilla								C:\Users	\pace\Docu	ments\/	VISI Generator\Package	s\PKG-1	Browse		Go to	
Version			P	Product lang	uage			MSI CodePa	age							
63.0.3				1033				1 0	Veutral							\sim
Product code								INSTALLDIR	R							
{0A6CB50B-0	C191-4E46-B2	06-F07A76	6BAD957}			New GUID										~
Upgrade code								BUIL	D LOG	Detect	ed MSI installations			C	Open log	9
{99F27E0A-B	3935-4175-B7	DD-966E40	D302030}			New GUID	:	Туре	Elapsed		Step					
🗹 Generate n	new codes wh	en build M	151													
Summary	/ Informa	tion														
Title			5	Subject												
Installation D	atabase															
Author			k	(eywords												
				Install,MS												
Comments																
This installer	database cor	tains the lo	ogic and dat	a required	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></pr<>	oduct name>.										
Platform				anguages				Elanced tin			_					
Autodetect			~	0				00:00	iic.			C Open I	MSI	🗳 Bi	uild MS	

• Click Edit, located next to the MSI settings profile field.

Edit package - PKG-190430-144511.mgp			- 🗆 X
≡ 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 🗸 Edit
Publisher			Project folder
Mozilla			C:\Users\pace\Documents\MSI Generator\Packages\PKG-1 Browse Go to
Version Pro	duct language		MSI CodePage
63.0.3 10	033		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 Sub	bject		
Installation Database			
Author Key	ywords		
In	nstall,MSI		
Comments			
This installer database contains the logic and data i	required to install <pro< td=""><td>duct name>.</td><td></td></pro<>	duct name>.	
Platform Lan	nguages		
Autodetect 🗸			Elapsed time 00:00 Copen MSI 🔅 Build MSI

 Go the Merge Modules tab and tick the Scan project file for Merge Modules option. For the Merge Modules detection and integration functionality you need to have at least one Merge Module pool (folder). If needed, you can use the default pool <u>C:\Program Files (x86)\PACE</u>



uite 5.3.1 - Getting Started		
Suite\MSI Generator\M	odules.	
MSI settings profile		×
Profile name		
default		
General	Scan project file for Merge Modules Merge Module pools	
Summary Information	C:\Program Files (x86)\PACE Suite\MSI Generator\Modules	
Registry		
Properties		
Per-User data		
INI files		
Merge Modules		
Permissions	4	Þ
Transforms	Add Edit Delete	
	Save Cancel	

Ensure that the edited profile is selected from the MSI settings profile field and click Build MSI. • Edit package - PKG-190430-144511.mgp – 🗆 🗙

	cuts\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 o	data required to install <prod< td=""><td>luct name>.</td><td></td><td></td></prod<>	luct name>.		
Platform	Languages			
Autodetect 🗸	0		00:00 C Open MSI	Build MSI

Review the detected suitable Merge Modules, which will be integrated into the MSI package • instead of respective project resources. If necessary, deselect Merge Modules, which you do



not want to integrate into your package. Afterwards, click Apply.

Edit package - MyPackage.mgp	Merge Modules		<	2	
≡ MENU Package F	Detected Manage Medicine				
	Detected Merge Modules				
Application Details	Select Merge Modules to apply to the output MSI package. NOTE Resources of Merge Modules will be saved to MSI and identical resources of the project will be ignored.				
	Merge Module	<u>^</u>			
Application name	🔽 🖃 🏜 Aboutbox.msm (Version: 2.0; Module ID: Aboutbox.A0F3EA9D_774F_487D_94D0_4E493E84958A)				
App msm	systemfolder\aboutbox.ocx (Version: 2.0.0.0)			~	Edit
Version	Instead of project file - C:\Windows\SysWOW64\Aboutbox.ocx (Version: 2.0.0.0)				
1.0.0.0	🔽 🗃 🕌 Avenue.msm (Version: 5.1.4; Module ID: Avenue.A1525C48_A10F_4CC4_A5F2_315B2D6D9DA7)		Brow	se	Go to
	Systemfolder/restore3.exe (Version: 1.0.0.1)				
Product code	Instead of project file - C:\Windows\SysWOW64\restore3.exe (Version: 1.0.0.1)				
{5B52AE25-8B84-490C-B646-	systemfolder\avenue.avi				Ŷ
Upgrade code	📝 🖼 🏜 BDE_ENT_WDR_5.2.0.2.msm (Version: 5.2.0.2; Module ID: BDE_ENT_WDR.E966F0CB_76B3_11D3_945B_00C04FB1760A)				
{C89E6F14-7F69-40ED-B935-E	systemfolder\bdeadmin.cpl (Version: 5.2.0.2)				>
	commonfilesfolder/borland shared/bde/bantam.dll (Version: 1.0.0.8)				
M Generate new codes when b	commonfilesfolder\borland shared\bde\charset.cvb				Open log
Summary Information	Instead of project file - C:\Program Files (x86)\Common Files\Borland Shared\BDE\charset.cvb				
and the second s	commonfilesfolder\borland shared\bde\bdeadmin.hlp				
Title	Instead of project file - C:\Program Files (x86)\Common Files\Borland Shared\BDE\BDEADMIN.HLP				
Installation Database	commonfilesfolder\borland shared\bde\bdeadmin.exe (Version: 5.2.0.2)				
Author	commonfilesfolder/boriand shared/bde/blw32.dll (Version: 3.0.0.5)				
	commonfilesfolder\borland shared\bde\disp.dll (Version: 5.2.0.2)				
	commonfilesfolder\borland shared\bde\ldapi32.dll (Version: 5.2.0.2)				
Comments	commonfilesfolder\borland shared\bde\idasci32.dll (Version: 5.2.0.2)				
This installer database contains	commonfilesfolder\borland shared\bde\idbat32.dll (Version: 5.2.0.2)				
	commonfilesfolder\borland shared\bde\idda3532.dll (Version: 5.2.0.2)				
	CommonFileefolder/boriand chared/bde/iddan?? dll //arcion: 5.2.0.2)	•			
U Override the profile's Summa					
Platform	Apply Cancel				
Autodetect			MSI		Cancel

١



4.8.7 MSIX/APPX Settings

Choose a scenario that better suits your needs:

- Create Modification Package, described in section 4.8.7.1 Create a modification package to customize the settings of the app, installed by main package.
- Set Display Properties, described in section 4.8.7.2 Control how your UWP app package will be displayed during the installation and the list of installed apps.
- Set Identity Properties, described in section 4.8.7.3 Define a globally unique identifier for your UWP package.
- Declare Capabilities, described in section 4.8.7.4 Declares the access to protected user resources that the package requires.
- Set Supported Platforms, described in section 4.8.7.5 Set the supported platforms (target device families) on which, the UWP package could be run.
- Manage Package Architectures, described in section 4.8.7.6 Select the processor architectures (x86, x64, ARM) on which you want to run your UWP package.
- Create Bundle, described in section 4.8.7.7 Combine the generated UWP packages into one single bundle.
- Sign Package/Bundle, described in section 4.8.7.8 Sign the generated package or bundle with a certificate for the testing purposes or distribution.
- Edit Manifest Manually, described in section 4.8.7.9 Edit the package manifest file(s) manually to modify existing or add new specific package settings.
- Manage Apps and Visual Assets, described in section 4.8.7.10 Include/exclude captured apps, add new ones and control their appearance settings such as logos, name, background color, etc.
- Generate AppInstaller, described in section 4.8.7.11 Generate the AppInstaller file for the non-Store distribution and automatic update of your UWP package.





4.8.7.1 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	e - PKG-190430-	144511.mgp										-		\times
≡ menu	Package	Files	Shortcuts\Apps	Registry	System resources									
				MSI	MST	UWP	APPV	THI	NAPP					
Display p	properties					UWI	P package	e optio	ons					
Package logo (5	50x50)					Packag	e format							
1 👅 👘	Browse					MSIX								~
Display name			Publisher dis	play name		Applica C:\Pro	ation root folder	36)\Mozilli	a Firefox					~
Firefox			Mozilla				errunt building	the nack	age for manual e	diting the manif	fest			
Description						Project	folder	f the pack	lage for managere	and g the man				
Mozilla Firef	ox					C:\Us	sers\pace\Doc	:uments\N	ISI Generator\Pac	ckages\PKG-1	Browse		Go to	
Capabilit	ies		Signatu	ire		Pack	kage iden	tity						
Declare acces	ss to the prote	cted user re	sources. Sign the ge	enerated pack	age/bundle.	Name				Publisher				
Edit cap	abilities		Edit	signature		Mozi	illaFirefox			CN=Mozilla				
Depende	encies		Archite	ctures &	Bundle	Version	1							
Specify packs	ne type (mair	/modification	(and Set the cor	nnatible proce	essor architectures an	63.0.	3.0							
supported pla	atforms.	ymouncut	bundle opt	ions.		E	BUILD LOG					(Open lo	g
Edit depe	ndencies		Edit ar	chitectures		Туре	Elapsed		Step					
App Insta	aller													
Generate the	App Installer	file to distrib	oute and											
update your	application wi	h a single c	lick.											
Edit app	installer					Elapseo 00:00	d time		Review the	UWP application I	imitations	🗳 Bu	uild UW	P

• 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				
	Save		Cancel	





4.8.7.2 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	s								
	MSI	MST	UWP	А	PPV	TH	IINAPP				
Display properties			ι	JWP pa	ckage	opti	ons				
Package logo (50x50)			P	ackage form	at						
Brown			1	MSIX							
Drowse	Dublisher diselsus error		А	pplication ro	ot folder						
Firefox	Mozilla			C:\Program	Files (x86)\Moz	illa Firefox				
Description] Interrupt	building t	he pa	kage for man	ual editing the ma	nifest		
Mozilla Firefox			P	roject folder				10 1 10/04	_		
				C:\Users\p	ace\Docu	ments	MSI Generato	r\Packages\PKG-1	Browse		Go to
Capabilities	Signature		F	Package	identi	ity					
Declare access to the protected user resources.	Sign the generated pack	age/bundle.	: N	Jame		·		Publisher			
Edit capabilities	Edit signature			MozillaFire	fox			CN=Mozi	lla		
			V	/ersion							
Jependencies	Architectures &	Bundle		63.0.3.0							
Specify package type (main/modification) and	Set the compatible proce	essor architectures ar	nd	BUILD	LOG					(Open log
	buildle options.			Туре	Elapsed		Step				
Edit dependencies	Edit architectures										
App Installer											
Generate the App Installer file to distribute and update your application with a single click.											
Edit appinstaller			E O	lapsed time 10:00			Review	w the UWP application	n limitations	🗳 Bu	uild UWP

• 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

4.8.7.3 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									_	
	uts\Apps Registry System resour	ces								
	MSI MST	UN	/P	APPV	THIN	APP				
Display properties			UWP p	ackage	optio	ns				
Package logo (50x50)			Package for	mat						
`			MSIX							~
Browse			Application	root folder						
Display name	Publisher display name		C:\Progra	m Files (x8	5)\Mozilla	Firefox				~
Piretox	Mozilia		🗆 Interrup	pt building	the packa	ge for manual edi	ting the man	ifest		
Mozilla Firefox			Project fold	er						
			C:\Users\	\pace\Docu	iments\M	SI Generator\Pack	ages\PKG-1	Browse		Go to
Capabilities	Signature		Packag	je ident	ity					
Declare access to the protected user resources.	Sign the generated package/bundle.		Name	, 			Publisher			
Edit capabilities	Edit signature		MozillaFi	refox			CN=Mozilla	3		
Demondencies	Angleite strong & Drogelle		Version							
Dependencies	Architectures & Bundle		63.0.3.0							
Specify package type (main/modification) and supported platforms.	Set the compatible processor architectures bundle options.	and	BUIL	D LOG					(Open 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.										
Edit appinstaller			Elapsed tim 00:00	ie		Review the U	VP application	limitations	🔅 Bi	uild UWP

• Update the necessary values in the Package identity section.

Edit package - PKG-190430-144511.mgp										_		×
≡ MENU Package Files Shorto	uts\Apps Registry S	System resources										
	MSI	MST	UWP	APPV		THINAPP	þ					
Display properties			UW	P packag	ge o	ptions						
Package logo (50x50)			Packag	e format								
			MSIX									~
Diselar area	Dublicher display page		Applica	ation root fold	er							
Firefox	Mozilla		C:\Pro	ogram Files ((x86)\N	/lozilla Fire	efox					~
Description			🗆 Inte	errupt buildir	ng the	package f	for manual edi	ting the mani	fest			
Mozilla Firefox			Project	folder				DKC 1	Deres		C - t-	
			C:\U	sers\pace\Do	ocume	ents (MSEG	enerator\Pack	ages\PKG-1	Browse		GO TO.	
Capabilities	Signature		Pack	kage ide	ntity	/						
Declare access to the protected user resources.	Sign the generated package	/bundle.	Name	5				Publisher				
Edit capabilities	Edit signature		Mozi	illaFirefox				CN=Mozilla	3			
Dependencies	Angleite sturge Q. Du		Version	1								
Dependencies	Architectures & Bu	Indie	63.0.	3.0								
Specify package type (main/modification) and supported platforms.	Set the compatible processo bundle options.	or architectures an	d E	BUILD LOG							Open lo	g
Edit dependencies	- Edit architacturac		Туре	Elapse	ed	Step						
Loit dependencies	Loit 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 U	WP application	limitations	¢	Build UV	/P



4.8.7.4 Declare Capabilities

Declare the access to protected user resources that the package requires.

• Go to the Package -> UWP tab.

EMENU Package Files Shorter	its\Apps Registry	System resources							
Tackage Thes Shorter	MSI	MST UN	NP	APPV	THINAPP				
isplay properties			UWP p	ackage o	ptions				
ckage logo (50x50)			Package for	mat					
Browse			MSIX						
plav name	Publisher display name		Application	root folder	4 10 ET 6				
refox	Mozilla		C:\Progra	m Files (X86)\r	VIOZIIIa FIRETOX				
cription			L Interrup	ot building the	package for manual e	diting the man	ifest		
ozilla Firefox			C:\Users\	pace\Docume	ents\MSI Generator\Pa	ckages\PKG-1	Browse	Go to	o.
apabilities	Signature		Packag	e identity	/				
clare access to the protected user resources.	Sign the generated packa	ige/bundle.	Name			Publisher			
Edit capabilities	Edit signature		MozillaFi	refox		CN=Mozill	а		
enendencies	Architectures & F	Sundle	Version						
sife package type (main/modification) and	Set the compatible proce		63.0.3.0						
ported platforms.	bundle options.	ssor architectures and	BUIL	D LOG				Open	lc
Edit dependencies	Edit architectures		Туре	Elapsed	Step				
op Installer									
enerate the App Installer file to distribute and adate your application with a single click.									
Edit appinstaller			Elapsed tim	ie	Poviow the	LIWP application	limitations	🖞 🖞 Build U	JW

Dedit package - PKG-190430-144511.mgp								- 🗆	
≡ MENU Package Files Sho	ortcuts\Apps Registry	y System resources							
	MSI	MST U	WP	APPV	THINAPP				
Display properties			UWP p	ackage o	otions				
Package logo (50x50)			Package for	mat					
`			MSIX						
Browse			Application	root folder					
Display name	Publisher display name		C:\Progra	m Files (x86)\N	Iozilla Firefox				
Firefox	Mozilla		Interrup	ot building the	package for manual e	editing the manif	est		
Description			Project fold	er					
Mozilla Firefox			C:\Users	pace\Docume	nts\MSI Generator\Pa	ckages\PKG-1	Browse	Go to	0
Capabilities Declare access to the protected user resourc	Signature es. Sign the generated p	ackage/bundle.	Packag	je identity	,				
	-		Name			Publisher			
Edit capabilities	Edit signature		MozillaFi	refox		CN=Mozilla			
Dependencies	Architectures	& Bundle	Version						
	d Cat the compatible of		63.0.3.0						
supported platforms.	bundle options.	ocessor architectures and	BUIL	D LOG				Open	
Edit dependencies	E dit excluite et voe		Туре	Elapsed	Step				
Edit dependencies	Edit architectures								
App installer									
Generate the App Installer file to distribute a update your application with a single click.	nd								



• Select the necessary capabilities and click **Save**. NOTE The modification package could not declare capabilities.

* • • • • • • • • • • • • • • • • • • •		.,
Capabilities		×
Capabilities		
Declare capabilities that the app needs.		
	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		
- 1997 I 1997 IV. 199		
For additional capabilities, edit the Manife	st. See App capability declarations online.	
Save	Cancel	
Save	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 4.8.7.9





4.8.7.5 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									-	
	uts\Apps Registry System resources									
	MSI MST	UWP	А	PPV	TH	INAPP				
Display properties		UV	VP pa	ckage	optio	ons				
Package logo (50x50)		Pack	age forma	it						
`		MSI	IX							~
Browse		Appl	lication ro	ot folder						
Display name	Publisher display name	C:\F	Program	Files (x8	5)\Mozi	lla Firefox				~
Firefox	Mozilla		nterrupt	building	the pac	kage for manua	al editing the man	ifest		
Description		Proje	ect folder							
Mozilla Firetox		C:\	Users\pa	ace\Docu	iments\	MSI Generator\	Packages\PKG-1	Browse	G	io to
Capabilities	Signature	Pa	ckage	ident	ity					
Declare access to the protected user resources.	Sign the generated package/bundle.	Nam	e		-		Publisher			
Edit capabilities	Edit signature	Mc	ozillaFiret	fox			CN=Mozilla	в		
Dependencies	Architectures & Rundle	Versi	ion							
Dependencies	Architectures & Bundle	63.	.0.3.0							
Specify package type (main/modification) and supported platforms.	Set the compatible processor architectures and bundle options.	d	BUILD	LOG					Op	oen log
		Тур	e	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		Elap: 00:00	sed time 0			Review	the UWP application	limitations	🗳 Build	d 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 O All platforms Only the following platfor	ms		
Windows 10 (Desktop)			
Min version		Max version tested	
10.0.14393.0	~	10.0.17763.0	~
Windows 8/8.1			
Windows 7			
Linux			
MacOS			
🗆 iOS			
Android			
🗆 Web			
	Save	Cancel	



4.8.7.6 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									-		×
	uts\Apps Registry	System resources									
	MSI	MST	UWP	APPV		THINAPP					
Display properties			UV	VP packa	ge o	options					
Package logo (50x50)			Pack	age format							
Browse			MSI	X							· · · · ·
Display name	Publisher display name		Appl	ication root fold	ier	Manilla Fireferr					
Firefox	Mozilla			rogram Files	(xoo)	viviozilia Firetox					
Description			∐ Ir	nterrupt build	ing th	e package for i	manual editing the r	nanifest			
Mozilla Firefox			C:\	Users\pace\D	ocum	nents\MSI Gene	erator\Packages\PKG	-1 Brows	ie	Go to	J
Capabilities	Signature	alas en des andes	Pa	ckage ide	entit	y					
Declare access to the protected user resources.	Sign the generated pa	ickage/bundle.	Nam	e			Publisher				
Edit capabilities	Edit signature		Mo	zillaFirefox			CN=Mc	zilla			
Dependencies	Architectures &	ጵ Bundle	Versi	on							
Specify package type (main/modification) and	Set the compatible pro	ocessor architectures an	63. d	0.3.0							
supported platforms.	bundle options.			BUILD LOG		_				Open	log
Edit dependencies	Edit architectures		Тур	e Elaps	ed	Step					
App Installer Generate the App Installer file to distribute and update your application with a single click.											
Edit appinstaller			Elap: 00:00	sed time)		R	Review the UWP applica	tion limitations	¢	Build U	WP

• Click Edit architectures.

Edit package - PKG-190430-144511.mgp											-		×
≡ MENU Package Files Short	cuts\Apps Registry	System resources											
	MSI	MST	UWP	APP	V	TH	INAPP						
Display properties			UW	/P pack	age	optio	ons						
Package logo (50x50)			Packa MSI)	ge format (~
Display name	Publisher display name		Applic	ation root f	folder	5)\Mozi	II.a. Eirafo	~					~
Firefox	Mozilla			ogrammi	:u:) (IVIO21	lia nielo.			6			
Description			Proiec	terrupt bu	liaing t	the pac	kage for	manual edi	ting the mani	rest			
Mozilla Firefox			C:\l	Jsers\pace	e\Docu	ments\	MSI Gen	erator\Packa	ages\PKG-1	Browse.		Go to	
Capabilities	Signature		Pac	kage i	denti	ity							
Declare access to the protected user resources	 Sign the generated pack 	kage/bundle.	Name						Publisher				
Edit capabilities	Edit signature		Mo	zillaFirefox					CN=Mozilla	9			
Dependencies	Architectures &	Bundle	Versio	n).3.0									
Specify package type (main/modification) and supported platforms	Set the compatible proc	essor architectures and	d	BUILD LO	G							Open I	og
Edit dependencies	Edit architectures	1	Туре	El	apsed		Step						
App Installer Generate the App Installer file to distribute and update your application with a single click.	Edit arcineetares	_											
Edit appinstaller			Elaps 00:00	ed time				Review the U\	NP application	limitations	¢	Build 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	

4.8.7.7 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							- 0	
≡ MENU Package Files S	Shortcuts\Apps Registry System resource	25						
	MSI MST	UWP A	PPV	THINAPP				
Display properties		UWP pa	ickage oj	otions				
Package logo (50x50)		Package form	at					
`		MSIX						
Browse		Application ro	oot folder					
Display name	Publisher display name	C:\Program	n Files (x86)\N	lozilla Firefox				
Firefox	Mozilia	Interrupt	building the	package for manual	editing the manif	est		
Nescription Mozilla Eirofox		Project folder						
		C:\Users\p	ace\Docume	nts\MSI Generator\P	ackages\PKG-1	Browse	Go t	0.
Capabilities	Signature	Dealeses						
Declare access to the protected user reso	urces. Sign the generated package/bundle.	Раскаде	laentity					
		Name	-		Publisher			
Edit capabilities	Edit signature	MozillaFire	fox		CN=Mozilla			
Dependencies	Architectures & Bundle	Version						
necify package type (main/modification)	and Set the compatible processor architectures a	05.0.5.0						
upported platforms.	bundle options.	BUILD	LOG				Open	i lo
Edit dependencies	Edit architectures	Туре	Elapsed	Step				
App Installer								
Generate the App Installer file to distribut	e and							
pdate your application with a single clici	ζ							
Edit appinstaller		Elapsed time 00:00		Review th	e UWP application li	mitations	🔅 🖞 Build U	JW

•

Click Edit architectures.						\bigcirc		
Edit package - PKG-190430-144511.mgp							-	
■ MENU Package Files Shorte	cuts\Apps Registry System resources							
	MSI MST	UWP A	(PPV	THINAPP				
Display properties		UWP pa	ackage op	otions				
Package logo (50x50)		Package form	at					
i		MSIX						
Browse		Application re	oot folder					
Display name	Publisher display name	C:\Program	n Files (x86)\M	ozilla Firefox				
Firefox	Mozilia	🗌 Interrupt	building the	package for manual	editing the manif	est		
Mozilla Firefox		Project folder						
		C:\Users\p	ace\Documer	nts\MSI Generator\Pa	ackages\PKG-1	Browse		Go to
Capabilities	Signature	Package	identity					
Declare access to the protected user resources.	Sign the generated package/bundle.		encernity					
Edit canabilities	Edit signature	: Name	fau		Publisher			
con copublico	Edit Signatore	Version	iox		CIN-IVIOZIIIA			
Dependencies	Architectures & Bundle	63.0.3.0						
Specify package type (main/modification) and	Set the compatible processor architectures and	BUILD	LOG				C	Open log
supported platforms.	bundle options.	Туре	Elapsed	Step				
Edit 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		Review the	e UWP application I	mitations	🔅 Bu	ild UWP

• 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	



4.8.7.8 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									-		X
	uts\Apps Registry	System resources									
	MSI	MST	UWP	APPV	THINAP	P					
Display properties			UW	P package	options						
Package logo (50x50)			Packa	ge format							
Browse			IMSIX								
Display name	Publisher display name		C:\Pr	ogram Files (x8	6)\Mozilla Fir	refox					~
Firefox	Mozilla			orrupt building	the package	for manual aditir	ng the manife				
Description			Projec	t folder	the package	for manual edition	ng the manife	251			
Mozilla Firefox			C:\U	lsers\pace\Doc	uments\MSI (Generator\Packag	ges\PKG-1	Browse		Go to	
Capabilities	Signature		Pac	kage ident	tity						
Declare access to the protected user resources.	Sign the generated packs	age/bundle.	Name	5		р	ublisher				
Edit capabilities	Edit signature		Moz	illaFirefox			CN=Mozilla				
Dependencies	Architectures Q	Dundle	Versio	n							
Dependencies	Architectures & I	bundle	63.0	.3.0							
Specify package type (main/modification) and supported platforms.	Set the compatible proce bundle options.	essor architectures and	9	BUILD LOG					0	Open lo	g
Edit dependencies	Edit architectures		Туре	Elapsed	Step	p					
con dependencies	Lon di cintectores										
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 UW	'P application lir	mitations	🗳 Bi	ild UW	(P

• Click Edit signature.

Edit package - PKG-190430-144511.mgp										-		×
	cuts\Apps Registr	y System resources	5									
	MSI	MST	UWP	APPV	٦	THINAPP						
Display properties			UW	P packag	ge op	otions						
Package logo (50x50)			Packa MSI)	ge format								~
Browse	Publisher display pame		Applie	ation root fold	er							
Firefox	Mozilla		C:\P	ogram Files (x86)\Mo	ozilla Firefox						~
Description				errupt buildir	ng the p	package for n	manual editing	g the manife	est			
Mozilla Firefox			Projec	t folder			arator) Package	PRC 1	Province		Calta	
Capabilities	Signature	ackane/bundle	Pac	kage ide	ntity							
	. Sign the generated p	denage, barraie.	Name				Pul	blisher				
Edit capabilities	Edit signature		Mo	zillaFirefox			C	N=Mozilla				
Dependencies	Architectures	& Bundle	Versio	n 12.0								
Specify package type (main/modification) and supported platforms.	Set the compatible p bundle options.	rocessor architectures an	nd	BUILD LOG							Open lo	g
Edit dependencies	Edit architectures	5	Туре	Elapse	d	Step						
App Installer Generate the App Installer file to distribute and update your application with a single click.	1											
Edit appinstaller			Elaps 00:00	ed time		R	Review the UWP	application lir	nitations	¢¢ B	uild UW	P

PACE Suite 5.3.1 - Getting Started 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

Save

How to install the generated certificate...

To install the generated UWP package, (1) enable the Developer Mode or Sideloading apps 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.

Cancel



×

0

4.8.7.9 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										-	
≡ MENU Package Files Shortc	uts\Apps Registry	System resources	5								
	MSI	MST	UWP	APPV	Ī	THINAPP					
Display properties			UW	P packa	ige op	tions					
Package logo (50x50)			Packag	je format							
Browco			MSIX								
Display name	Publicher display name		Applic	ation root fol	der						
Firefox	Mozilla		C:\Pr	ogram Files	(x86)\M	ozilla Firefox	(
Description			🗆 Int	errupt build	ling the p	ackage for r	manual editin	g the mani	fest		
Mozilla Firefox			Project	t folder				- ARKC 1	Bassing		C = +=
Capabilities	Signature		De el	lea a a i du	ocumen	IS (MSI GENE	erator (rackag	es (FKG-1	browse		30 10
Declare access to the protected user resources.	Sign the generated pack	age/bundle.	Name	kage lue	entity		Pu	ıblisher			
Edit capabilities	Edit signature		Moz	illaFirefox				IN=Mozilla			
Dependencies	Architectures &	Bundle	Versio	n							
	Set the second block	burrare	63.0	.3.0							
supported platforms.	bundle options.	essor architectures ar		BUILD LOG						0	pen log
Edit dependencies	Edit architectures		Туре	Elap	sed	Step					
App Installer											
Арр пізалег											
Generate the App Installer file to distribute and update your application with a single click.											
Edit appinstaller			Elapse 00:00	d time		R	Review the UWP	application I	imitations	🗳 Bui	ild UWP

• Tick the Interrupt building the package for manual editing the manifest option and click Build UWP.

😂 Edit package - PKG-190430-144511.mgp									_		×
≡ MENU Package Files Short	cuts\Apps Registry	System resources									
	MSI	MST U	IWP A	APPV	THINA	APP					
Display properties			UWP pa	ackage	option	าร					
Package logo (50x50)			Package form	at							
Browse			MSIX								~
Display name	Publisher display name		Application r	oot folder	······································	Fireferr					
Firefox	Mozilla		C.\Program	1 Files (xoo		FIREIOX		_			•
Description			L Interrupt	: building t	the packag	ge for manual ed	iting the manifest				
Mozilla Firefox			C:\Users\c	ace\Docu	ments\MS	Generator\Pack	ages\PKG-1	Browse	(Go to	
Capabilities	Signature	race (bundle	Package	e identi	ity						
Declare access to the protected user resources	. Sign the generated pack	age/bullule.	Name				Publisher				
Edit capabilities	Edit signature		MozillaFire	efox			CN=Mozilla				
Dependencies	Architectures &	Bundle	Version								
· Specify package type (main/modification) and	Set the compatible proc	essor architectures and	65.0.5.0						_		
supported platforms.	bundle options.		BUILD	LOG					0	pen lo	9
Edit dependencies	Edit architectures		Туре	Elapsed	2	тер					
App Installer Generate the App Installer file to distribute and update your application with a single click.	ł		Elapsed time	1							
Edit appinstaller			00:00			Review the U	WP application limit	ations	🤌 Bui	ld UW	P

• 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

Manifest	×
ackage manifest	
it the created package manifest files (see Manifest schema online) and then co	ontinue
lanifest file(s) location	
Cillicare) page) Deguments) MSL Constrator) Pagkagas) PKC 190207 100914	Golto

• 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	\times
	Manifest validation errors:	
	Manifest_x86.xml - The 'ProcessorArchitecture' attribute is invalid - The value 'xsss86' is invalid according to its dataty	
	4	
	Log file	
	Ignore and continue Cancel	

4.8.7.10 Manage Apps and Visual Assets

Choose a scenario that better suits your needs:

- Exclude App, described in section 4.8.7.10.1 Exclude the unnecessary app from the project.
- Include Excluded App, described in section 4.8.7.10.2 Include, the previously excluded app, back to the project.
- Add App, described in section 4.8.7.10.3 Add a new app to the project.
- Set App Logos, described in section 4.8.7.10.4 Control appearance settings of the app such as logos, name, background color.
- Delete App, described in section 4.8.7.10.5 Delete the unnecessary app from the project.



4.8.7.10.1 Exclude App

Exclude the unnecessary app from the project.

• Go to the Shortcuts\Apps -> UWP tab.

🗊 Edit package	e - PKG-190430-1	144511.mgp								-		>
≡ menu	Package	Files	Shortcuts\Apps	Registry	Syste	em resources						
					N	ISI 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	ox.exe		×	Browse Pick cole	à
						App list logo (44x44)	Small logo (71x71) <no logo=""></no>	Medium logo (150x150)	Wide logo (310x150) <no logo=""></no>	Large log	go (310x31 no logo>	0)
Add	Exclue	de				Browse Show name on	Browse	Browse	Browse	Bro	wse	

• 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.

	Package Files	Shortcuts\Apps Reg	istry Sys	stem resources				
Application Firefox	New application Exclude De Delete Shi	I ft+Del		MSI UWP Application Display name Firefox Description Firefox Executable C:\Program Files (x8 Visual assets Background color	APPV 6)\Mozilla Firefox\firefo			Browse
				Transparent Short name App list logo (44x44)	Small logo (71x71)	Medium logo (150x150)	Wide logo (310x150)	Pick color Large logo (310x310)
				5	<no logo=""></no>	۵	<no logo=""></no>	<no logo=""></no>
Add	Exclude			Browse Show name on Medium logo	Browse	Browse arge logo	Browse	Browse



4.8.7.10.2 Include Excluded App

Include, the previously excluded app, back to the project.

• Go to the Shortcuts\Apps -> UWP tab.

cure puckage	- PKG-190430-1	44511.mgp								- 🗆
MENU	Package	Files	Shortcuts\Apps	Registry	Syste	em resources				
					Ν	UWP	APPV			
pplication refox						Application Display name Firefox Description Firefox Executable C:\Program Files (x8 Visual assets Background color Transparent Short name	36)\Mozilla Firefox\firefi	DX.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 <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.

Ease pressing.	e 110 190490 144911.m	ан						
≡ menu	Package Files	Shortcuts\Apps	Registry S	System resources				
		_		MSI UWP	APPV			
Application Firefox	New application Include In Delete SI	is hift+Del		Application Display name Firefox Description Firefox Executable C:\Program Files (x8	6)\Mozilla Firefox\firef	ox.exe		Browse
				Visual assets Background color Transparent Short name				Pick color
				App list logo (44x44)	Small logo (71x71) <no logo=""></no>	Medium logo (150x150)	Wide logo (310x150)	Large logo (310x310) <no logo=""></no>
				Browse	Browse	Browse	Browse	Browse



4.8.7.10.3 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	

0

• Select New application from the context menu.

Edit package - PKG-190430-144511.mgp		– 🗆 ×
≡ MENU Package Files Shortcuts\Apps Registry	System resources	
■ MENU Package Files Shortcuts\Apps Registry	MSI UWP APPV Application Display name Firefox Description Description Firefox C:\Program Files (x86)\Mozilla Firefox\firefox.exe Executable C:\Program Files (x86)\Mozilla Firefox\firefox.exe Visual assets Background color Transparent : Short name (no logo> Browse. Browse. Browse.	Pick color Pick color
Add Evoluda	Show name on Medium logo Wide logo Large logo	





• Select an application executable file and click Select.

Select file or folder	_	×
Name		*
e C		
Program Files (x86)		
🖃 📕 Mozilla Firefox		
🕀 🔚 browser		
defaults		
fonts		
🗉 🔜 gmp-clearkey		
🗉 🛄 uninstall		_
crashreporter.exe		
irefox.exe		
antenanceservice.exe		
anitenanceservice_installer.exe		
iii) minidump-analyzer.exe		
j pingsender.exe		
plugin-container.exe		
jugin-hang-ui.exe		
📄 updater.exe		
Mozilla Maintenance Service		
ProgramData		*
V Select Cancel		

4.8.7.10.4 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.

MENU	Package	Files	Shortcuts\Apps	Registry	Syste	em resources				
					Ν	UWP	APPV			
oplication						Application				
efox						Display name				
						Firefox				
						Description				
						Firefox				
						Executable				
						C:\Program Files (x8	86)\Mozilla Firefox\firef	ox.exe		Browse
						Visual assets				
						Background color				
						Transparent				 Pick colo
					1	Short name				
						App list logo (44x44)	Small logo (71x71)	Medium logo (150x150)	Wide logo (310x150)	Large logo (310x310
						3		5		
						-				
						6	<no logo=""></no>		<no logo=""></no>	<no logo=""></no>
						Browse	Browse	Browse	Browse	Browse
						Show name on				
						Medium logo	Wide logo	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



bane.						
Edit package - PKG-190430-144511.mgp						- 🗆 ×
≡ MENU Package Files Shortcuts\Apps Registry	Syst	em resources				
		MSI UWP	APPV			
Application		Application				
Firefox		Display name				
		Firefox				
		Description				
		Firefox				
		Executable				
		C:\Program Files (x8	6)\Mozilla Firefox\firefo)X.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)
		3		5		
		e	<no logo=""></no>		<no logo=""></no>	<no logo=""></no>
		Browse	Browse	Browse	Browse	Browse
]	Show name on				
Add Exclude		Li Mealum Iogo		arge iogo		

4.8.7.10.5 Delete App

Delete the unnecessary app from the project.

• Go to the Shortcuts\Apps -> UWP tab.

Edit package	- PKG-190430-144511.mg	р							- 🗆 ×
≡ MENU	Package Files	Shortcuts\Apps	Registry	Syste	m resources				
				Ν	ISI UWP	APPV			
Application Firefox					Application Display name Firefox Description Firefox Executable C:\Program Files (x8 Visual assets Background color Transparent	36)\Mozilla Firefox\firefi	DX.exe		Browse Pick color
					Short name App list logo (44x44)	Small logo (71x71) <no logo=""></no>	Medium logo (150x150)	Wide logo (310x150) <no logo=""></no>	Large logo (310x310) <no logo=""></no>
Add	Exclude				Browse Show name on Medium logo	Browse	Browse	Browse	Browse

• 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	44511.map		235, 366						-	- 🗆	×
• p j-		31									_	
	Package	Files	Shortcuts\Apps	Registry	Syste	m resources						
					N	ISI UWP	APPV					
Application						Application						
Firefox	New appli	ation				Display name						
	Evaluda	Dal				Firefox						
	Delete	Shit	ft+Del			Description						
	Delete	5111				Firefox						
						Executable						
						C:\Program Files (x8	36)\Mozilla Firefox\firefo)X.exe			Browse	·
						Visual assets						
						Background color						
						Transparent				~	Pick cold	or
						Short name						
						App list logo (44x44)	Small logo (71x71)	Medium logo (150x150)	Wide logo (310x150)	Large	logo (310x310	0)
						5		5				
						6	<no logo=""></no>		<no logo=""></no>		<no logo=""></no>	
						Browse	Browse	Browse	Browse	E	rowse	
						Show name on						
Add	Evolue	-				🗌 Medium logo	🗌 Wide logo 👘 🗌 L	arge logo				
Aud	EXClu											

• Select **Delete** from the context menu of the excluded item, which you want to delete from the project.

Edit package	e - PKG-190430-144511.m	ngp						– 🗆 X
≡ menu	Package Files	Shortcuts\Apps Registry	Sys	tem resources				
				MSI UWP	APPV			
Application				Application				
Firefox	New application			Display name				
	Include I	ns		Description				
	Delete S	Shift+Del		Firefox				
				Executable				
				C:\Program Files (x8	6)\Mozilla Firefox\firef	ox.exe		Browse
				Visual assets				
				Background color				
				Transparent				 Pick color
				Short name				
				App list logo (44×44)	Cmall logo (71v71)	Modium Long (150v150)	Wide loss (210v1E0)	Large (210x210)
				5	Small logo (/1x/1)	5	wide logo (Sloxiso)	Large logo (510X510)
				۷	<no logo=""></no>	e	<no logo=""></no>	<no logo=""></no>
				Browse	Browse	Browse	Browse	Browse
				Show name on				
Add	Delete			🗆 Medium logo	🗌 Wide logo 🛛 🗌 l	arge logo		



4.8.7.11 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>.

• Go to the Package -> UWP tab.

Edit package - PKG-190430-144511.mgp								-	
≡ MENU Package Files Shorto	uts\Apps Registry S	ystem resources							
	MSI	MST UN	/P /	APPV T	HINAPP				
Display properties			UWP pa	ackage opt	ions				
Package logo (50x50)			Package form	nat					
`			MSIX						~
Browse			Application re	oot folder					
Display name	Publisher display name		C:\Program	n Files (x86)\Mo	zilla Firefox				~
Firefox	Mozilla		Interrupt	t building the pa	ckage for manual ed	diting the mani	fest		
Description			Project folder	r					
			C:\Users\p	pace\Document	s\MSI Generator\Pac	kages\PKG-1	Browse	G	io to
Capabilities	Signature		Dealer	- talanatan					
Declare access to the protected user resources	Sign the generated package/	bundle	Раскаде	eldentity					
	- g g		Name			Publisher			
Edit capabilities	Edit signature		MozillaFire	efox		CN=Mozilla			
Dependencies	Architectures & Bur	ndle	Version						
			63.0.3.0						
supported platforms.	bundle options.	architectures and	BUILD	LOG				Op	oen log
Edit dependencies	Edit architectures		Туре	Elapsed	Step				
Lait dependencies	Luit architectures								
App Installer									
Generate the App Installer file to distribute and									
update your application with a single click.									
Edit appinstaller			Elapsed time	2	Poviow the	IWP application	imitations	ෆ් Buil	d UWP
			00:00		neview the l	ann application i	innitiduons		

• Click Edit appinstaller.

Edit package - PKG-190430-144511.mgp											-		Х
≡ MENU Package Files Shortco	uts\Apps	Registry	System resources										
		MSI	MST	UWP	Δ	PPV	THINA	PP					
Display properties				l	UWP pa	ckage	option	S					
Package logo (50x50)				F	Package form	at							
Renuco					MSIX								~
Dirolay name	Publisher disp	lav pame		4	Application re	ot folder							
Firefox	Mozilla	nay name			C:\Program	Files (x86	i)\Mozilla F	irefox					~
Description					Interrupt	building t	he packag	e for manual e	diting the manif	est			
Mozilla Firefox				F	Project folder		monts\MSI	Concrator\Pa	ckagas) PKG 1	Browso		Golta	
Capabilities	Signatur	re		I	Package	identi	ity	Cenerator (na		browse		00 10	
Declare access to the protected user resources.	Sign the ger	nerated packa	ge/bundle.	E n	Name				Publisher				
Edit capabilities	Edit si	gnature			MozillaFire	fox			CN=Mozilla				
Dependencies	Archited	tures & E	Bundle	Ň	/ersion 63.0.3.0								
Specify package type (main/modification) and supported platforms	Set the com bundle optic	patible proce	ssor architectures and	d	BUILD	LOG					C	pen lo	g
Edit dependencies	Edit arcl	hitectures			Туре	Elapsed	Ste	ер					
App Installer Generate the App Installer file to distribute and update your application with a single click.													
Edit appinstaller				E	Elapsed time)0:00			Review the	UWP application I	mitations	🎲 Bui	ild UW	Р

• 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

available for download. Select the desired package update settings and click Save. For manual editing, see <u>App Installer file (.appinstaller) schema reference</u>. NOTE The generated AppInstaller file will work only if you launch it from the specified URL.

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	
Main O Optional	
© Main	
Download UDL (without file name)	
Download URL (without file name) https://mywebsite/my_app/	
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. Update settings</mainpackage>	
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. Update settings Check for updates on the app Jaunch</mainpackage>	
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. Update settings Check for updates on the app launch In the background of the launched app every</mainpackage>	
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. Update settings Check for updates on the app launch In the background of the launched app every Every 12 hours</mainpackage>	
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. Update settings Check for updates on the app launch In the background of the launched app every Every 12 hours</mainpackage>	
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. 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.</mainpackage>	

- 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>.



4.8.8 APPV Settings

Choose a scenario that better suits your needs:

- Set Application Details, described in section 4.8.8.1 Set the application details, such as app name, version and publisher of the APPV package.
- Manage Package Settings, described in section 4.8.8.2 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 4.8.8.3 Change the default APPV virtualization (isolation) level for a folder.
- Set Registry Virtualization Level, described in section 4.8.8.4 Change the default APPV virtualization (isolation) level for a registry key.
- Manage Apps, FTA, Shortcuts, described in section 4.8.8.5 Include/exclude captured apps, add new ones, manage their shortcuts and FTA.

4.8.8.1 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
■ MENU Package Files Shortcuts\Apps Registry System resource	25
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
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 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 this package to be run only on the selected operating systems Allow all COM objects to interact with the local system Allow all COM objects to interact with the local system Allow all COM objects to interact with the local system Allow all COM objects to interact with the local system	
	Elapsed time 00:00 Build APPV

4.8.8.2 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	o 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

	System resources								
MSI	MST U	JWP	Δ	PPV	THINA	PP			
Application Details			App-V F	Package	e Optic	ons			
Application name		- Г	App-V version	ı					
Firefox			App-V 5.2	(1607) pac	kage form	at version			~
Version		. 1	Package name	2					
63.0.3			PKG-19043	0-144511					
Publisher			Package folde	r					
Mozilla			C:\Users\p	ace\Docur	ments\MS	Generator\Packa	ges\PKG-1	Browse	. Go to
App-V Settings		1	Description						
Primary virtual application directory (PVAD)	~								
		÷	BUILD	LOG					Open log
Streaming options		L	Туре	Elapsed	St	ер			
Target OF		L							
 Allow this package to be run on any operating system 		L							
 Allow this package to be run only on the selected operating systems 		L							
Select OS		L							
Advanced options		L							
□ Allow all named objects to interact with the local system		L							
\square Allow all COM objects to interact with the local system		L							
\square Allow virtual application full write permissions to the virtual file system									
Enable Browser Helper Objects			Elanced time						
			00:00						🔅 Build APPV

4.8.8.3 Set Folder Virtualization Level

Change the default APPV virtualization (isolation) level for a folder.

• Go to the Files tab.

		iciudea. TT files (156,6	(MB) (Collapse
Name	Туре	Size	State
BC	Folder		Changed
Program Files (x86)	Folder		Changed
🕢 🔤 Mozilla Firefox	Folder		Added
🖃 🔜 Mozilla Maintenance Service	Folder		Added
🗈 🛄 logs	Folder		Added
Distanceservice.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
E 🗋 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
e C.	Folder		Changed
Program Files (x86)	Folder		Changed
🗷 🔚 🔍 Mozilia Firefox	Folder		Added
🖃 🛄 Mozilla M 🛛 Import files	Folder		Added
🗉 🗋 legs New subfolder	Folder		Added
maint Properties E2	EXE	197,4 KB	Added
Lunis Flopentes F2	EXE	87,5-KB	Added
updat Wove to tolder	INI	1,2 KB	Added
ProgramData EXClude Del	Folder		Changed
Microsoft Add to exclusion filter	Folder		Changed
Searce Delete Shift+Del	Folder		Changed
Wind APPV virtualization level ✓ Override local folder	Folder		Changed
St Merge with local folder	Folder		Changed
	Folder		Changed
Mindows-Defender	Folder		Changed
Users	Folder		Changed
Windows	Folder		Changed
Appcompat	Folder		Changed
Prefetch	Folder		Changed
B _ System32	Folder		Changed
B Femp	Folder		Changed
Add • Exclude			

4.8.8.4 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		
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
	System hive		
	Key		Ghanged
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.

Edit package - PKG-19	430-144511.mgp							
≡ MENU Packa	ge Files S	hortcuts\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
🕀 🛄 Classes					Key			Ghanged
🕀 🔚 Microso	ť				Key			Changed
HKEY_LOCAL_M	ACHINE				System hive			
SOFTWARE					Key			Changed
Classes					Key			Changed
Clients					Key			Changed
Microso	ť				Key			Changed
H Mozilla	luon est se siste :				Key			Added
Policies	import registry				Key			Ghanged
🕀 🔜 Register	Export registry				Key			Changed
■ WOW64	New key				Key			Changed
System	New value				Key			Changed
Current	D	50	-		Key			Changed
HKEY_USERS	Properties	F2			System hive			
	Move to				Key			Changed
Software	Exclude	Del			Key			Ghanged
	Add to exclusio	on filter	•					
	Delete	Shift+De	21					
	APPV virtualiza	tion level	 Verri 	de local key				
			Merge	with local key				
Add 🔺 E	xclude							



4.8.8.5 Manage Apps, FTA, Shortcuts

Choose a scenario that better suits your needs:

- Exclude App, described in section 4.8.8.5.1 Exclude the unnecessary app from the project.
- Include Excluded App, described in section 4.8.8.5.2 Include, the previously excluded app, back to the project.
- Add App, described in section 4.8.8.5.3 Add a new app to the project.
- Add App Shortcut, described in section 4.8.8.5.4 Add an app shortcut to the project.
- Add App FTA, described in section 4.8.8.5.5 Add an app FTA (File Type Association) to the project.
- Edit App, described in section 4.8.8.5.6 Edit the App details such as name, version and application path.
- Edit App Shortcut, described in section 4.8.8.5.7 Edit shortcut details of the App.
- Edit App FTA, described in section 4.8.8.5.8 Edit a file type association (FTA) of the App.
- Delete App, described in section 4.8.8.5.9 Delete the App from the project.
- Delete App Shortcut, described in section 4.8.8.5.10 Delete a shortcut of the App from the project.
- Delete App FTA, described in section 4.8.8.5.11 Delete a file type association (FTA) from the project.




4.8.8.5.1 Exclude App

Exclude the unnecessary app from the project.

• Go to the Shortcuts\Apps -> APPV tab.

1 3	- PKG-190430-1	44511.mgp	, 								- 0
MENU	Package	Files	Shortcuts\Apps	Registry	Syster	n resources					
					M	SI UWF	APPV				
plication						Application					
efox						Name					
						firefox					
						Version					
						63.0.3.0					
						Application path					
						C:\Program Files	(x86)\Mozilla Firefox\fire	efox.exe			Brows
						Shortcuts			File Type A	ssociations	
						Name	Folder		Extension	Progld	
						Firefox	C:\Users\Public\Desktop		.html	FirefoxHTML-E7CF17	6E110C211B
					:	Firefox	C:\ProgramData\Microsoft	t\Windows\!			

• 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					
				M	SI UWF	APPV				
Application					Application					
firefox	New application	on			Name					
	Exclude	Del			Version					
	Delete	Shift+Del			63.0.3.0					
					Application path	(v86)\Mozilla Firefov\firefov eve			Br	00050
					Shortcuts		File Type A	ssociations	0.0	00050
					Name	Folder	Extension	Prould		
					Firefox	C:\Users\Public\Desktop	.html	FirefoxHTML-E7CF1	76E110C21	1B
				:	Firefox	C:\ProgramData\Microsoft\Windows\!				
					Add	Delete	Add	Exclude		
Add	Exclude									

4.8.8.5.2 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	n resources					
					MS	SI UWP	APPV				
Application						Application					
firefox						Name					
						firefox					
						Version					
						63.0.3.0					
						Application path					
						C:\Program Files	(x86)\Mozilla Firefox\firefox.exe	2			Browse
						Shortcuts			File Type A	ssociations	
						Name	Folder		Extension	Progld	
						Firefox	C:\Users\Public\Desktop		.html	FirefoxHTML-E7CF17	6E110C211B
					:	Firefox	C:\ProgramData\Microsoft\Windo	WS\ <u></u>			
						L.L.A	Dalata		L	Fuchada	
						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

© Edit package - PKG-190430-144511.mgp	<u> </u>			-	- 🗆 X
≡ MENU Package Files Shortcuts\Apps Registry	System resources				
	MSI UWP	APPV			
Application	Application				
New application	firefox				
Include Ins	Version				
Delete Shift+Del	63.0.3.0				
	Application path				-
	C:\Program Files (x8	36)\Mozilla Firefox\firefox.exe			Browse
	Shortcuts		File Type As	sociations	
	Name F	older	Extension	Progld	
	Firefox 0	::\Users\Public\Desktop C:\ProgramData\Microsoft\Windows\!	.ntmi	FirefoxHTML-E/CF176	:110C211B
	-				
	Add	Delete	Add	Exclude	
Add Delete					

4.8.8.5.3 Add App

Add a new app to the project.



• Go to the Shortcuts\Apps -> APPV tab.

Edit package	- PKG-190430-1	44511.mgp									- <u> </u>
	Package	Files	Shortcuts\Apps	Registry	System	n resources					
					MS	SI UWP	APPV	,			
Application						Application					
firefox					4	Name					
						Version					
						63.0.3.0					
						Application path					
						C:\Program Files	(x86)\Mozilla Fir	efox\firefox.exe			Browse
						Shortcuts			File Type As		
						Name	Folder		Extension	Progld	
						Firefox	Ci\Users\Public\(Desktop	.html	FirefoxHTML-E7CF1	76E110C211B
						Thelox	C.(Programbata	(with 0501) (with 00ws).			
						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		^
🖃 🛄 C:		
Program Files (x86)		
🖃 🔚 Mozilla Firefox		
🕀 🔤 browser		
🗉 🔜 defaults		
fonts		
🗉 📗 gmp-clearkey		
🗉 🛄 uninstall		_
crashreporter.exe		
irefox.exe		
aintenanceservice.exe		
maintenanceservice_installer.exe		
minidump-analyzer.exe		
pingsender.exe		
plugin-container.exe		
plugin-hang-ui.exe		
📄 updater.exe		
🗉 🔚 Mozilla Maintenance Service		
ProgramData		-
Y Select Cancel		

4.8.8.5.4 Add App Shortcut

Add an app shortcut to the project.



• Go to the Shortcuts\Apps -> APPV tab.

Edit package	e - PKG-190430-1	44511.mgp									- 🗆	×
≡ menu	Package	Files	Shortcuts\Apps	Registry	System	n resources						
					MS	UWP	APPV					
Application						Application						
firefox					4	Name						
						firefox						
						Version						
						63.0.3.0						
						Application path						
						C:\Program Files	(x86)\Mozilla Firefox\firefox.ex	(e			Brows	;e
						Shortcuts			File Type As	sociations		
						Name	Folder		Extension	Progld		
						Firefox	C:\Users\Public\Desktop		.html	FirefoxHTML-E7CF1	76E110C211B	
					:	Firefox	C:\ProgramData\Microsoft\Wind	ows\ <u></u>				
						Add	Delete		Add	Exclude		
Add	Exclud	le										

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.map

Edit package - PKG-190430-144511.mgp					- 🗆 X
≡ MENU Package Files Shortcuts\Apps Registry	System	resources			
	MSI	UWP	APPV		
Application		Application			
firefox	N N	Name			
		firefox			
	N	/ersion			
		63.0.3.0			
	4	Application path			
		C:\Program Files	(x86)\Mozilla Firefox\firefox.exe		Browse
	9	Shortcuts		File Type As	sociations
		Name	Folder	Extension	Progld
		Firefox	C:\Users\Public\Desktop	.html	FirefoxHTML-E7CF176E110C211B
		Firefox New s	shortcut		
		Prope	erties F2		
		Exclud	de Del		
		Delet	e Shift+Del		
		4			
		Add	Exclude	Add	Exclude
Add Exclude					



• Specify shortcuts details such as icon, name, installation folder, arguments and so on Afterwards, click Save.

Properties	- 🗆 ×
no icon ~ Shortcut	
Name	
	•
Target (installation) folder	
	Browse
Details	
Arguments	
Start in (WkDir)	
	Browse
Run	
Normal window	~
Save Cancel	

4.8.8.5.5 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	p								
≡ menu	Package Files	Shortcuts\Apps	Registry	Systen	n resources					
				M	SI UWI	APPV	_			
Application firefox					Application Name firefox Version 63.0.3.0 Application path					
					C:\Program File	s (x86)\Mozilla Fire	efox\firefox.exe	File Type A	ssociations	Browse
					Name	Folder		Extension	Progld	
					Firefox	C:\Users\Public\D	esktop	.html	FirefoxHTML-E7CF1	76E110C211B
Add	Exclude				Add	Delete		Add	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									-		×
≡ MENU	Package	Files	Shortcuts\Apps	Registry	Systen	n resources							
					M	SI UWP	APPV						
Application firefox						Application Name firefox Version 63.0.3.0 Application path C:\Program Files i Shortcuts Name Firefox Eirefox	x86)\Mozilla Firefox\firefox.exe Folder CAUsersRublictDesktop	File Ty Extensio	ype Asso n	Dciations Progld ErefortHIML_E7CF17(E	3rowse 211B	
	Suchar					4 Add	Exclude		Propertie Exclude Delete	es F2 Del Shift+Del			
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 existing	file type			
				\sim
Progld description				
Content type				
Perceived type				
				 ~
Actions				
Command	Verb	Darameters		
A	open	"%1"		
	C	Canad		
	Save	Cancel		





4.8.8.5.6 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.

	2								
			MS	I UWP	APPV				
plication				Application					
efox				Name					
				firefox					
				Version					
				63.0.3.0					
				Application path					
				C:\Program Files	(x86)\Mozilla Firefox\firefox.	exe			Browse
			:	Shortcuts			File Type /	Associations	
				Name	Folder		Extension	Progld	
				Firefox	C:\Users\Public\Desktop		.html	FirefoxHTML-E7CF1	76E110C211B
			:	Firefox	C:\ProgramData\Microsoft\Wir	ndows\:			
				A.1.1	211				
				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									



4.8.8.5.7 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-190430-144511.mg	lb.							- 🗆
■ MENU	Package Files	Shortcuts\Apps	Registry	System re	sources				
				MSI	UWP	APPV			
Application firefox				A Na fi Vei	refox rsion 3.0.3.0				
					:\Program Files	(x86)\Mozilla Firefox\firefox.exe			Browse
				S	nortcuts		File Type A	ssociations	
				N	ame	Folder	Extension	Progld	
				Ę	irefox	C:\Users\Public\Desktop	.html	FirefoxHTML-E7CF1	76E110C211B
					Add	Delete	Add	Exclude	
Add	Exclude								

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		$ \Box$ \times
≡ MENU Package Files Shortcuts\Apps Registry	System resources	
Application	MSI UWP APPV Application	
firefox	Name	
	TIPETOX	
	63.0.3.0	
	Application path	
	C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Browse
	Shortcuts File Type Association	15
	Name Folder Extension Progld	
	Firefox CAUsers/Public/Desktop .html FirefoxHTML Firefox CAProgramData/Microsoft/Windows/S .html FirefoxHTML	E7CF176E110C211B
	New shortcut	
	Properties F2 Exclude Del Delete Shift+Del	
Add Evolude	Add Exclude Add Exclude	2



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

© Properties	_		×
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			

4.8.8.5.8 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 - - - ×

≡ menu	Package	Files	Shortcuts\Apps	Registry	Systen	n resources					
					M	SI UWF	APPV				
Application firefox						Application Name firefox Version 63.0.3.0 Application path C:\Program File	s (x86)\Mozilla Firefox\firefox.exe				Browse
						Shortcuts		Fil	е Туре А	ssociations	
						Name	Folder	Ext	tension	Progld	6511002118
						Firefox	C:\ProgramData\Microsoft\Window	ws\:		Theloxithine-Erciti	
						Add	Delete		Add	Exclude	
Add	Exclud	le									



Select Properties from the context menu of a file type association, which you wan to edit.

 Bedit package - PKG-190430-144511.mgp

	Package	Files	Shortcuts\Apps	Registry	Syster	n resources				
					М	SI UWP	APPV			
Application firefox						Application Name firefox Version 63.0.3.0 Application path C:\Program Files Shortcuts Name Firefox Firefox	(x86)\Mozilla Firefox\firefox.exe Folder CA\Users\Public\Desktop CA\ProgramData\Microsoft\Windows\f	File Type / Extension .html	Associations Progld FirefoxHTML-E7CF176ET New FTA Properties F2 Exclude Del Delete Shift+Del	Browse
						Add	Exclude	Add	Exclude	
Add	Exclud	de								

• Update the necessary file type association details such as file extension, Progld, content and perceived types, context menu commands and click **Save**.

File Type Associations			—	×
Extension				
.html				
Progld				
 Create new file type 				
 Associate with existing 	file type			
FirefoxHTML-E7CF176	E110C211B			~
Progld description				
Firefox Document				
Content type				
Perceived type				
				~
Actions				
Command	Vorb	Parameters		
	open	-osint -url "%1"		
	open			
	Save	Cancel		



 \Box \times

4.8.8.5.9 Delete App

Delete the App from the project.

• Go to the Shortcuts\Apps -> APPV tab.

ackage Files	Shortcuts\Apps	Registry	System MS	resources U U W Application Name firefox Version 63.0.3.0 Application path	P <u>APPV</u>					
			MS	Application Name firefox Version 63.0.3.0 Application path	P <u>APPV</u>					
				Application Name firefox Version 63.0.3.0 Application path	1					
				Name firefox Version 63.0.3.0 Application path						
				firefox Version 63.0.3.0 Application path						
				Version 63.0.3.0 Application path						
				63.0.3.0 Application path						
				Application path						
				C:\Program File	es (x86)\Mozilla Firefox\firefox.exe				Bro	owse
				Shortcuts		I	File Type A	ssociations		
				Name	Folder		Extension	Progld		
				Firefox	C:\Users\Public\Desktop		.html	FirefoxHTML-E7CF176	5E110C21	1B
			0 0	Firefox	C:\ProgramData\Microsoft\Windows\					
				Add	Delete		Add	Exclude		
	Exclude	Exclude	Exclude	Exclude	Name Firefox Firefox	Name Folder Firefox CAUsers/Public/Desktop Firefox CAProgramData\Microsoft\Windows\ Firefox CAProgramData\Microsoft\Windows\ Add Delete	Name Folder Firefox CAUsers/Public/Desktop Firefox CAProgramData/Microsoft/Windows/ Firefox CAProgramData/Microsoft/Windows/ Add Delete	Name Folder Extension Firefox CAUsers/Public/Desktop Intml Firefox CAProgramData/Microsoft/Windows/ Intml Add Delete Add	Name Folder Extension Progld Firefox CAUsersAPublic/Desktop Intmi FirefoxHTML-E7CF178 Firefox CAProgramData\Microsoft\Windows\t Intmi FirefoxHTML-E7CF178 Add Delete Add Exclude	Name Folder Extension Progld Firefox CAUsers/Public/Desktop Intml FirefoxHTML-E7CF176E110C21 Firefox CAProgramData/Microsoft/Windows/ Intml FirefoxHTML-E7CF176E110C21 Add Delete 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	р							— C	X
≡ MENU	Package Files	Shortcuts\Apps	Registry	Systen	n resources					
E MENU	Package Files	Shortcuts\Apps	Registry	System M:	n resources SI UWP Application Name firefox Version 63.0.3.0 Application path C:\Program Files Shortcuts Name Firefox Firefox Firefox Add	APPV (x86)\Mozilla Firefox\firefox.exe Folder CAUsers\Public\Desktop CAProgramData\Microsoft\Windows\f	File Type A Extension .html	SSOciations Progld FirefoxHTML-E7CF1] Bro	WSe
Add	Exclude									





 Select Delete from the context menu of the excluded App, which you want to delete from the project.

Edit package	- PKG-190430-144511.mgp								- 0	×
	Package Files	Shortcuts\Apps	Registry	System	resources					
Application Freefox	Package Files	Shortcuts\Apps	Registry	System MS	Application Name firefox Version 63.0.3.0 Application path C:\Program Files Shortcuts Name Firefox Firefox		File Type A Extension	SSOCIATIONS Progld FirefoxHTML-E7CF17	Brow	/se
Add	Delete				Add	Delete	Add	Exclude		

4.8.8.5.10 Delete App Shortcut

Delete a shortcut of the App from the project.

×

≡ menu	Package	Files	Shortcuts\Apps	Registry	Systen	n resources					
Application					M	Application	APPV				
meiox						firefox Version 63.0.3.0					
						Application path C:\Program Files Shortcuts	(x86)\Mozilla Firefox\firefo	ox.exe	File Type A	ssociations	Browse
						Name	Folder		Extension	Progld	511050110
					:	Firefox	C(\ProgramData)Microsoft(V	Vindows\!	Add	Exclude	
Add	Exclud	le									

• 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.

ngnign	leu III j	CIIOV		seu out	•							
Edit package	- PKG-190430-14	44511.mgp									- 0	×
≡ MENU	Package	Files	Shortcuts\Apps	Registry	Systen	n resources						
Application firefox	Package	Hiles	Shortcuts\Apps	Kegistry	M:	Application Application Name firefox Version 63.0.3.0 Application pat C:\Program Shortcut Name Firefox Firefox Firefox	JWP APPV on Files (x86)\Mozilla Fire S Folder CAUSers\Public\DD CAUSers\Public\DD CAUSers\Public\DD CAUSers\Public\DD Exclude Del Delete Shift	fox\firefox.exe esktop Aicrosoft;Windows\' +Del	File Type A: Extension Intml	SSOCIATIONS ProgId FirefoxHTML-E7CF17t	Brow E110C2118	5e
Add	Exclud	e										

• Select **Delete** from the context menu of the excluded shortcut, which you want to delete from the project.

Edit package - PKG-190430-144511.mgp		- 🗆 ×
	System resources	
	MSI UWP APPV	
Application	Application	
firefox	Name	
	tiretox	
	Version	
	0.0.50	
	Application path C:\Program Files (x86)\Mozilla Firefox\firefox.exe	Browse
	Shortcuts Eile Type Association	
		3
	Firefox CAUsers/Public/Desktop J.html FirefoxHTML	-E7CF176E110C211B
	Firefox CABroacomData\MicrosoftWindows\	
	New shortcut	
	Properties F2	
	Delete Shift+Del	
	bucce bucce	
	Add Delete Add Exclude	
Add Exclude		

4.8.8.5.11 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					
E MENU	Package	Files	Shortcuts\Apps	Registry	Systen M:	A resources SI UWP Application Name firefox Version 63.0.3.0 Application path C:\Program Files Shortcuts Name Firefox Firefox	APPV (x86)\Mozilla Fir Folder CAUsers\PublicM C\ProgramData	efox\firefox.exe Pesktop Microsoft\Windows\	File Type Extension 	e Associations Progld FirefoxHTML-E7CF17	Browse
Add	Exclud	de				Add	Delete		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 packag	e - PKG-190430-1	144511.mgp								- 🗆 X
≡ menu	Package	Files	Shortcuts\Apps	Registry	System	n resources				
					M	SI UWP	APPV			
Application						Application Name firefox Version 63.0.3.0 Application path C:\Program Files Shortcuts Name Firefox Firefox	(x86)\Mozilla Firefox\firefox.exe Folder CdUsers\Public\Desktop Cd\ProgramData\Microsoft\Windows\Start Exclude	File Ty Extensio	ype Association Progld FireforyHTM Properties F2 Exclude Del Delete Shift+E	Browse
Add	Exclu	de								



• Select **Delete** from the context menu of the excluded file type association, which you want to delete from the project.

Edit package - PKG-190430-144511.mgp				- 🗆	×
■ MENU Package Files Shortcuts\Apps	Registry System resources				
Application firefox	MSI Name firefox Version G3.0.3.0 Application p C:\Program Shortcut Name Firefox Firefox Firefox	UWP APPV tion ath ath Files (x86)\Mozilla Firefox\firefox.exe ts CAUSerstPublic\Desktop CA\ProgramData\Microsoft\Windows\ Exclude Exclude	File Type Associations	Browse.	
Add Exclude					



4.8.9 THINAPP Settings

Choose a scenario that better suits your needs:

- Set Entry Points, described in section 4.8.9.1 Select which of package executable (EXE) files that will be shortcuts into the virtual environment.
- Define Primary Data Container, described in section 4.8.9.2 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.

4.8.9.1 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.
---	-----------	------------	----------------

EMENU Package Files Shortcuts/Apps Registry System resources MSI MSI UWP APPV THINAPP ThinApp Settings Entry points Inferdo.cose CiProgram Files (d6)/Mozila Fredo.Ninferdo.cose Inferdo.lise Inferdo.lise Minary data cintaline Output: Minary data cintaline Output: Minary data cintaline <	i Git	t package	- PKG-190430	-144511.m	gp									-		\times
MSI MST UWP APPV THINAPP Dirachaps Settings Entry poins Interdexces CAPogram Files (oB6)Motalia Firedox/indirecanceserice Carbogram Files (oB6)Motalia Firedox/indirecanceserice Indirachanceserice Carbogram Files (oB6)Motalia Firedox/indirecanceserice Carbogram Files (oB6)Motalia Firedox/indirecanceserice Indirachanceserice Indirachanceserice Carbogram Files (oB6)Motalia Firedox/indirecanceserice Indirachanceserice Indirachanceserice Indirachanceserice Indirachanceserice Indirachanceserice Carbogram Files (oB6)Motalia Firedox/indirecanceserice Indirachanceserice Indirachanceserice Indirachanceserice Indirachanceserice Carbogram Files (oB6)Motalia Firedox/indirecanceserice Indirachanceserice Indirachances	≡м	ENU	Package	Files	Shortcuts\Apps	Registry	System resources									
Strict Entry points interlox.csee C/Program Files (d8)/Mozilla Fredox/Interlox.see C/Program Files (d8)/Mozilla Fredox/Interlox.see mainteranceservice.see C/Program Files (d8)/Mozilla Fredox/Interlox.see mainteranceservice.see C/Program Files (d8)/Mozilla Fredox/Interlox.see minidump-analyzer.see C/Program Files (d8)/Mozilla Fredox/Interlox.see pingender.see C/Program Files (d8)/Mozilla Fredox/Interlox.see Prodox/Interlox Compression Compress virtual package File system Isolation mode Fourse						MSI	MST	UWP	A	PPV	TH	INAPP				
Firthy points Name Description If rifetox (1):exe CAProgram Files (b66)/Mozilla Firefox/interfox.exe If rifetox (1):exe CAProgram Files (b66)/Mozilla Firefox/interanceservice.exe Imaintenanceservice Firefox (1):exe CAProgram Files (b66)/Mozilla Firefox/intenanceservice.exe Imaintenanceservice Imaintenanceservice CAProgram Files (b66)/Mozilla Firefox/intenanceservice.installer.exe Imaintenanceservice CAProgram Files (b66)/Mozilla Firefox/intenanceservice.exe Imaintenanceservice CAProgram Files (b66)/Mozilla Firefox/intenanceservice.exe Imaintenanceservice CAProgram Files (b66)/Mozilla Firefox/intenanceservice Imaintenanceservice Compression Compression File syste	Thir	nApp S	Settings					Th	ninApp	p Packa	ige (Options				
Name Description Priefox.cxe C:VProgram Files (x66)/Mozilla Firefox/firefox.exe maintenanceservice_installer.zxe C:VProgram Files (x66)/Mozilla Firefox/maintenanceservice_installer.zxe pingender.exe C:VProgram Files (x66)/Mozilla Firefox/maintenanceservice_installer.zxe pingender.exe C:VProgram Files (x66)/Mozilla Firefox/pigsender.exe pingender.exe C:VProgram Files (x66)/Mozilla Firefox/pigsender.exe v Vow64=0 V AthArchitectureShortcut=1 Use one of the entry points Vow64=0 Viefox.exa Vow64=0 Viefox.exa Vow64=0 Viesesparate_DAT file Priefox.ckage structure Firefox.ckat Vow64=0 Compression Prepare ThinApp package structure Compression Prepare ThinApp package structure File system Isolation mode Step File system Isolation Vow64=0 Viese struction Vow64=0 Viese structure and build the package File system Isolation mode File system Isolation mode File system Isolation Sudbox Iocation Outon Iocation	Entry	points						Inve	entory nar	ne						
		Name			Description		4	• Fi	refox							
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Browse 00:00 Build THINAPP	O Cu	istom loca	ation					Fla	osed time				_			
							Browse	00:	00				\$	Build	I THIN/	APP

• 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-190430-1445	11.mgp						_			
MENU Package F	iles Shortcuts\Apps Regi	stry System resc	urces							
	MS	MST	UW	P ,	APPV	THINAPP				
hinApp Settings				ThinAp	p Package	Options				
ntry points				Inventory na	me					
Name	Description		*	Firefox						
 Firefox.exe 	C:\Program Files (x86)\Mozilla Firefox\	firefox.exe		Generat	e MSI package					
crashreporter.exe	C:\Program Files (x86)\Mozilla Firefox\	crashreporter.exe	_	Mozilla	Maintenance	Service.msi				
firefox (1).exe	C:\Program Files (x86)\Mozilla Firefox\ C:\Program Files (x86)\Mozilla Firefox\	firefox.exe	_							
maintenanceservice_installer.exe Ci\Program Files (x86)\Mozilla Firefox\maintenanceservice_installer.exe						ts\MSI Generator\Packages\PKG_1	Browse	Golto		
minidump-analyzer.exe CAProgram Files (x86)/Mozilla Firefox/minidump-analyzer.exe pingsender.exe CAProgram Files (x86)/Mozilla Firefox/pingsender.exe				C. (Osers (pace (blocumer	is (mol denerator (rackages (riko-r	DIOWSE	00 10		
				Build D	etails					
plugin-container.exe	C:\Program Files (x86)\Mozilla Firefox\	plugin-container.exe	-	Wow64	=0					
4			•	AltArchi	- tectureShortcu	t=1				
rimary data container			:	□ LoadDo	tNetFromSyste	m=Win7				
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Fireiox.dat				BUILD	LOG			Open log		
ompression				Туре	Elapsed	Step				
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le system isolation mode										
ull write access to non-system	directories (Merged)		~							
andbox location										
) loor profile (% AppData%) Th	install)									

4.8.9.2 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

≡м	ENU Pack	age File	s Shortcuts\Apps	Registry	System resources	s						
				MSI	MST	UWP	0	APPV	TH	IINAPP		
Thi	nApp Settir	igs					ThinAp	p Packa	age (Options		
Entry	points						Inventory na	ame				
	Name		Description			-	Firefox					
	Firefox.exe		C:\Program Files (x86)\Mozil	la Firefox\firefox.	exe							
	crashreporter.exe		C:\Program Files (x86)\Mozil	la Firefox\crashre	porter.exe		Genera	te Misi pack	age:			
	firefox (1).exe		C:\Program Files (x86)\Mozil	la Firefox\firefox.	exe		Mozill	a Maintena	nce Se	ervice.msi		
	maintenanceservi	ce.exe	C:\Program Files (x86)\Mozil	la Firefox\mainte	nanceservice.exe		Project loca	tion				
	maintenanceservi	ce_installer.exe	C:\Program Files (x86)\Mozil	la Firefox\mainte	nanceservice_installer.ex		C:\Users\	pace\Docu	ments	MSI Generator\Packages\PKG-1	Browse	Go to
	minidump-analyz	er.exe	C:\Program Files (x86)\Mozil	la Firefox\minidu	mp-analyzer.exe							
	pingsender.exe		C:\Program Files (x86)\Mozil	la Firefox\pingser	nder.exe		Build L)etails				
	plugin-container.	xe	C:\Program Files (x86)\Mozil	la Firefox\plugin-	container.exe	Ŧ	Wow64	l=0				
4					•	_	AltArch	itectureSho	rtcut="	:1		
Prima	ry data container					1.1			vetorn	-Win7		
⊙ Us	e one of the ent	y points				_		Jarearonio	ystern			
Fi	refox.exe					~	O Only pr	epare Thin/	App pa	ackage structure		
O Us	e separate .DAT	file					 Prepare 	l hinApp p	ackage	e structure and build the package		
F	irefox.dat						BUIL	D LOG				Open log
Comp	ression						Туре	Elapsed		Step		
	ompress virtual p	ackage										
File sv	stem isolation mod	2										
Full	write access to no	on-system d	irectories (Merged)			~						
		-										
Sandb	ox location		+===									
	er prome (%App istom location	Data 70\T NIN	stall)									
	Storriocation				Browse		Elapsed tim 00:00	ie			ψ	Build THINAPP



_



4.9 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 ?							
向 MSI Generator								
Verified publisher: Infopulse Uk File origin: Hard drive on this co	Verified publisher: Infopulse Ukraine LLC File origin: Hard drive on this computer							
Show more details								
Yes	No							



• Click Import APPV package.

۲	Start screen				×
=	MENU			¢	MSI GENERATOR Licensed for PACE Suite demonstration (V
	Packaging sce	enarios		A Copen Edit project Edit project Vackage	
	New			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	V package to the project more	Import APPV package	ld new APPV APPX, THINAPP or M	SI package
	4	- Fernage to the project, mot			

• Choose an App-V package (*.APPV), which you want to edit from your file system and Open.

🕼 Open			×
← → ~ ↑ 🖊	> This PC > Downloads	✓ [™] Search	h Downloads 🔎
Organize 🔻 Nev	<i>w</i> folder		III 🔹 💶 📀
- Ouick access	Name	Date modified	Type Size
Desktop	# PKG-190212-152709.appv	2/15/2019 2:23 PM	Microsoft Applica 63,875
👆 Downloads	A.		
Documents	*		
Pictures	オ		
OneDrive			
💻 This PC			
i Network			
•i Homegroup			
	<		
	File <u>n</u> ame: PKG-190212-152709.appv	✓ Proje	ct files (*.appv) V

- 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 4.8.2
 - o Regarding Registry see section 4.8.3

- 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 4.8.8
- Finally, to generate an APPV package navigate to the Package -> APPV tab and click Build APPV.

© Edit package - PKG-190430-144511.mgp	- 🗆 X
■ MENU Package Files Shortcuts\Apps Registry System resources	
MSI MST UWP	APPV THINAPP
Application Details App-1	V Package Options
Application name App-V ver	rsion
Firefox App-V 5	5.2 (1607) package format version
Version Package n	name
63.0.3 PKG-19	30430-144511
Publisher Package f	folder
Mozilla C:\User	rs\pace\Documents\MSI Generator\Packages\PKG-1 Browse Go to
App-V Settings	on
Primary virtual application directory (PVAD)	
Do not use PVAD (default)	JILD LOG 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	
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	
LI Enable Browser Helper Objects Elapsed t 00:00	time 🗳 Build APPV

• 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



4.10 Test MSI/MST

Choose a scenario that better suits your needs:

- Test MSI Readiness, see section 4.10.1 • Test MSI (+MST) package and its apps for compliance with the **Desktop App Certification** Program in an unattended mode. This will check the package safety, compatibility and readiness for deployment. For more information, see Windows Desktop app tests.
- Run ICE Validation, see section 4.10.2 • Validate the MSI package using the Internal Consistency Evaluators (ICE).

4.10.1 Test MSI Readiness

Test MSI (+MST) package and its apps for compliance with the **Desktop App Certification Program** in an unattended mode. This will check the package safety, compatibility and readiness for deployment. For more information, see <u>Windows Desktop app</u> tests.

NOTE: Ensure that you have configured at least one virtual machine for the testing purposes (see section 3.5 "Configure VM for Testing").

Launch Quality Approver from the desktop or the start menu.







Select the virtual machine for testing from the list and click Test package.
 Quality Approver

Quality Approver		- L X
Welcome to Quality Approver Select a virtual machine to test your app and its MSI or MSIX/APPX Virtual machine PPAS-C-Win10-1803-x64-06	package remotely. Virtualization solution VMware ESXi (Host: 172.27.130.5)	Help Ovality Approver uses the Windows App Certification Kit (a part of Windows Windows 10 SDK) to test your package for compliance with the Windows 10 Desktop App Certification Program or your UWP app to ensure that it is ready for the windows Store. The testing is performed automatically on the dedicated and configured virtual machine. Usage of a virtual machine is required to eliminate the possible negative effect of the installation/removal failure. Desting process Select package* -> Run VM -> Check VM prerequisites -> Transfer package to VM -> Perform testing -> Save report -> Restore VM. Desting VM configuration process Install PACE tools & Windows SDK on VM* -> Enter VM connection details* -> Verify connection to VM * manual actions
Test package Configure new VM		See User manual online

• Select the MSI package, which you want to test, in the **Package** field, and the package external files (if exist) in the **Related files** list. If necessary, you can also apply an MST to your package. Afterwards, click **Next** to start testing.

Quality Approver - Testing					—		×
	•						
	Package	Testing	Completion				
Dackage coloction							
Package selection							
Select an MSI or MSIX/APPX package	e to test. If the MSI p	backage requires	s external files, ensu	re that they are a	also sele	ected.	
Package							
C:\Users\victor.feschenko\Download	ls\7z1900.msi					Browse	
Transform file (MST)							
				Clear		Browse	
Application usage type							
 Per Machine 							
○ Per User							
Related files							
Select all/none							
Files							
Microsoft.SkypeApp_kzf8qxf38zg5c!A	pp						
7-Zip19.00_19.0.0_neutral_AOI9gkkE	aWdox.msix						
desktop.ini							
				Next >		Cance	

• Wait until the wizard has started the virtual machine, checked the prerequisites, transferred the package to the VM and tested the package. Once it is completed, the wizard moves to the next step automatically.

🖲 Quality Ap	pprover - Testing					_		×
								
		Package	Testing	Completion				
Package	e testing							
🕑 Runnii	ng the virtual machine							
Chock	ing the proroquisitos							
CHECK	ing the prerequisites							
Transf	erring package to the virt	ual machine						
👬 Testin	g the package							
EVENT LOC	G						Open lo	g
Elapsed	Task				S	tatus		-
00:02:57	Testing - Installed programs				c	omplete	ed	
00:02:57	Testing - Dependency information	ation			С	omplete	ed	
00:02:57	Testing - Proper OS version cl	necking			С	omplete	ed	
00:03:14	Testing - Process install trace	files			с	omplete	ed	
00:03:14	Testing - Program inventory				c	omplete	ed	
00:03:14	Testing - Process install trace	files			с	omplete	ed	
00:03:14	Testing - Installed programs				С	omplete	ed	
00:03:14	Testing - Antimalware Check				С	omplete	ed	
00:03:14	Testing - Binary analyzer				Ir	n progre	255	Ŧ
Flansed time								
00:03:17	-							
							_	
					Next >		Cancel	

• Use Save report and Open report controls to save locally and review the obtained HTML report. By default, the virtual machine will be restored to the previous state, as it has before testing. In order to leave the virtual machine at the current state, untick the Restore the virtual machine to the previous state checkbox and click Finish.



🧿 Quality Approver - Testing					
				-	×
					
	Package	Testing	Completion		
Completion					
The testing process has been com	pleted				
Overal testing result: PASSED W	ITH WARNINGS				
Save report Open report					
This result was obtained with Wind	ows App Certification	Kit.			
Restore the virtual machine to t	he previous state				



• Find the test results, the potential impact of issues and the suggested fixes in the obtained report. Here is the sample test report:

Microsoft Windows	10 Enterprise (10.0.17134.0)
OS Architecture:	
x64	
Report time:	
26.07.2019 23:13:05	
Overall result	PASSED WITH WARNINGS
It is highly recommended	. Had been been a set of the second sec
it is highly recommended	that you investigate and root cause warnings to ensure that users or your app aren't negatively impacted.
Clean reversible in	stall test
PASSED	
Remove all non-shared file	is and folders
PASSED	
Do not force an immediate	rebot during instaliation
PASSED	
Do not force an immediate	؛ reboot during uninstallation
B46655	
PASSED	
white appropriate Add/Re	nove Program Values
PASSED	
Single user registry check	
Install to the correct	ct folders test
WARNING	
Install to Program Files	
	Warning: The install to Program Files test detected the following errors: Promote Tracking 100 fails due to install Incestion C-VITemp (daffer7b)12459029).
	• Impact if not fixed: Native apps e.g. 32 and 64 bit must be installed to the %ProgramFiles% folder by default, note that 32 bit apps installing on x64 versions of Windows must be stored under %Program
	How to fix: Write the files to the correct folders. See link below for more information:
	Working with Known Folders
PASSED	
Write to the %WINDIR% o	r%SystemDrive%
PASSED	
Loading apps on Window	s startup
Digitally signed file	: test

4.10.2 Run ICE Validation

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.



■ 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	
F - C - C - C - C - C - C - C - C - C -	
Import and export	
Validation	•
Help	•
Quit	Alt + F4

• Choose an MSI package, which you want to validate and click Open.

Open					×
← → • ↑ =	> This P	C > Desktop	ٽ ~	Search Desktop	<i>م</i>
Organize 🔻 Ne	ew folder				• 🔳 🕐
 ✓ Quick access ✓ Desktop ✓ Downloads ☑ Documents ☑ Pictures ☑ OneDrive ☑ This PC ☑ Network ✓ Homegroup 	1 * * * *	Name 伊ACE_v4.7.0.msi 伊ACE_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
	File <u>n</u> ame	PACE_v5.0.0.msi	~	All Supported File	; (*.msi;*.mst ∨ Cancel



Select Validation -> Full MSI validation suite (ICE) from the MENU. •



_



Wait while MSI Editor is validating the opened package.





Find the validation results in the ICE validation section of the Tables Editor tab.
 MSI Editor - PACE_v5.0.msi

≡ menu	Packag	e Sum	mary Package Designer Tables	es Editor						
Tables			AppvAssotiation							
_Tables		- L								
Validation			Component	ComponentId	Direct	tory_		Attributes	Condition	
AdminExecuteS	Sequence		cmp03C135474D5E45B896EBAB0AE71	14B7D0 {E76E43B7-CAE7-45FB-AFED-C4EB5D97BF	6E} MSIEC	DITORROOT		0	<null></null>	^
AdminUlSeque	ince		cmp03CF47FBCA227E610AE74C151CF1	10DC3 {4F992149-F97F-4FC7-ABD5-7F04F9D4A79	8} MSIEC	DITORROOT		0	<null></null>	_
AdvtExecuteSer	quence	- 11	cmp048AC21FB63D4133A445EA42DC2	2080D9 {F0533FD5-4E59-43FE-937D-2D8A03F0D8	BA} MSIEC	DITORROOT		0	<null></null>	
AppSearch			cmp04CA7A47B5488B87FAD013D7298	8B7A1D {F49F8023-C415-4C04-BB1F-5DC97CD77EE	B} dir33F	15391917AF44495354	A87548BF33E	0	<null></null>	
Rippocarch			cmp04E8832C7517C8084E2FED1A6736	6D42F {B7C01448-C0B1-4FBF-8E72-C051A364EBA	D} MSIEC	DITORROOT		0	<null></null>	
ChaoleRey			cmp066B8A5A7452DE33957A30532F6	659B23 {A538878C-B279-49C1-9192-D239E059E0C	E} MSIGE	ENERATORROOT		0	<null></null>	
Crieckbox		- 1	cmp09F7AC2A2FF723969F8012AC52E6	69B03 {947D58C5-3623-4806-B21B-388B13672BFI	D} MSIED	DITORROOT		0	<null></null>	
Component		- 1	cmp0AD5B5B486F0407826081628CD8	86768A {F4983A24-03A5-4CCC-9F9E-C813058DA4	77} dirC09	916089BBF98BB0BADF	683C5CCF0B62	0	<null></null>	
Control			cmp0B7757366D7F60B8BF5DB57F5190	0E030 {71569ABA-7422-4C58-9E48-4AAC16216AE	DA} dirD0[D367A0F19DB5E0F041	F02F2E2977E5	0	<null></null>	
ControlConditio	on		cmp0E3A26096B7317162A8B752B2155	5241B {8E1AC0DD-8A66-4A4D-A79E-A1F980E0176	82} MSIEC	DITORROOT		0	<null></null>	
ControlEvent			cmp0E84CCAE3EDA5717C2BCD70134	3CDE4D {A5861D28-3544-4BF8-9C98-F932A9737D9	92} MSIEC	DITORROOT		0	<null></null>	
CustomAction			cmp0F4C22DDBBFA1BC0C017C970B3E	D5F35F {BB107768-37FA-42AF-8F59-11C618031D47}	dir94E	3B67BF783945E9DA72	2AB418C246DA	0	<null></null>	
Dialog		Ψ.	cmp0F7F406F71906AC759C78CB83FB	865682 (D6243020-2D75-499C-BAA1-BC0D8A9A8)	2EE} dir0D4	45770F498758A818CB	A62739812738	0	<null></null>	
Hide empt	ty tables ferences	ICE	Enable linked items tracking for delete ralidation Undo/Redo history	e/update operations					Selected rows: 1 / Total ro	ows: 42
ID	Туре	Desc	iption			Table	Column	Key		F
▶ ICE03	Warning	String	overflow (greater than length permitted in colu	umn); Table: File, Column: Language, Key(s): fil73210830	080A6AC	File	ile Language		33080A6ACF1E2B3EB9A	. (^
ICE03	Warning	String	ring overflow (areater than length permitted in column): Table: File. Column: Language. Kev(s): fil786F0F811CDF98F File Language					fil7B6F0		c
ICE03	Warning	String	overflow (greater than length permitted in colu	umn); Table: File, Column: Language, Key(s): fil1F07C2D	C44EF96	File	Language	fil1F07C	2DC44EF9677EE392BA1	. c
ICE03	Warning	String	overflow (greater than length permitted in colu	umn); Table: File, Column: Language, Key(s): filBB287DA	9379719	File	Language	filBB287	DA93797190D17163FB6C.	
ICE03	Warning	String	overflow (greater than length permitted in colu	umn); Table: CustomAction, Column: Target, Key(s): Ren	noveWeb	CustomAction	Target	Remove	WebinstallerCache	c
ICE18	Error	KeyP	ath for Component: 'cmp0E3A26096B7317162A8B	B752B2155241B' is Directory: 'MSIEDITORROOT'. The I	Directory/	Component	Directory	cmp0E3	A26096B7317162A8B752	. c
ICE18	Error	KevP	th for Component: 'cmp04CA7A47B5488B87FAI	D013D7298B7A1D' is Directory: 'dir33F15391917AF444	95354A8	Component	Directory	cmp040	A7A47B5488B87FAD013	c
ICE33	Warning	Real	ev reg9D8A5D931A859E3DA2EE9002B0D887E5	is used in an unsupported way Proold should be regi	stered via	Registry	Registry	reg9D8	45D931A859E3DA2EE90	Ċ
4										- F



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4.11 Test MSIX/APPX Readiness

Test an MSIX/APPX package (bundle) and its apps against the Microsoft Store requirements in an unattended mode. For more information on the tests, see Windows Store App tests and Windows Desktop Bridge app tests.

NOTE: Ensure that you have configured at least one virtual machine for the testing purposes (see section 3.5 "Configure VM for Testing").

Launch Quality Approver from the desktop or the start menu shortcut. •



Select the virtual machine for testing from the list and click Test package.

EMEN EMEN Select a virtual machine to test your app and its MSI or MSIX/APPX package remotely. Select a virtual machine to test your app and its MSI or MSIX/APPX package remotely. Mintai machine Mintai machine to test your app and its MSI or MSIX/APPX package remotely. Mintai machine Mintai machine to test your app and its MSI or MSIX/APPX package remotely. Mintai machine Mintai machine to test your app and its MSI or MSIX/APPX package remotely. Mintai machine Mint	Quality Approver		– 🗆 X
Welcome to Quality Approver Select a virtual machine to test your app and its MSI or MSIX/APPX package remotely: Virtual machine Virtualization solution PPAS-C-Wint0-1803-x64-06 Vitware ESKI (Host: 172:27:130.5) Help Cuality Approver uses the Windows App Certification KI: (a compliance with the Windows 10 Desktop App Certification KI: (b compliance with the Windows 10 Desktop App Certification KI: (a compliance with the Windows 10 Desktop App Certification KI: (b compliance with the Wi	≡ menu		
Select a virtual machine to test your app and its MSI or MSIX/APPX package remotely. Virtual machine PPAS-C-Win10-1803-x64-06 VMware ESXi (Host: 172.27.130.5) Configured virtual machine is ready for the windows 10 SDK) to test your package for compliance with the Windows 10 SDK) to test your package for compliance with the Windows 10 SDK) to test your package for compliance with the Windows 10 SDK) to test your package for compliance with the Windows 10 SDK) to test your package for compliance with the Windows 10 SDK) to test your package for compliance with the Windows 10 SDK) to test your package for compliance with the Windows 10 SDK) to test your package for compliance with the Windows 10 SDK) to test your package for compliance with the Windows 10 SDK) to test your package for compliance with the Windows 10 SDK) to test your package for compliance with the Windows 10 SDK) to test your package for compliance with the Windows 10 SDK) to test your package for the Windows SDK on the dedicated and configured virtual machine is required to test installation/removal failure. Test testing is performed automatically on the dedicated and configured virtual machine is required to XM -> Perform testing -> Save report -> Restore VM. One-time VM configuration process Install PACE tools & Windows SDK on VM* -> Enter VM connection to VM * manual actions	Welcome to Quality Approver		Help Quality Approves the Windows App Cartification Kit /o
Virtual machine Virtualization solution PPAS-C-Win10-1803-x64-06 VMware ESXi (Host: 172.27.130.5) Compliance with the Windows 10 Desktop App Certification Program or your UWP app to ensure that it is ready for the Windows Store. The testing is performed automatically on the dedicated and configured virtual machine. Usage of a virtual machine is required to eliminate the possible negative effect of the installation/removal failure. Esting process Select package* -> Run VM -> Check VM.prerequisites> Transfer package to VM -> Perform testing -> Save report ->. Restore VM. One-time VM configuration process Install PACE tools & Windows SDK on VM* -> Enter VM. One-time VM configuration process Install PACE tools & Windows SDK on VM* -> Enter VM. * manual actions	Select a virtual machine to test your app and its N	ISI or MSIX/APPX package remotely.	part of Windows Windows 10 SDK) to test your package for
PPAS-C-Wint0-1803-x64-06 VMware ESXi (Host: 172.27.130.5) Program or your UWP app to ensure that it is ready for the windows Store. The testing is performed automatically on the dedicated and configured virtual machine. Usage of a virtual machine is required to eliminate the possible negative effect of the installation/removal failure. Testing process Select package* -> Run VM -> Check VM pereduisites -> Transfer package to VM -> Perform testing -> Save report -> Restore VM. One-time VM configuration process Install PACE tools & Windows SDK on VM* -> Enter VM connection details* -> Verify connection to VM * manual actions	Virtual machine	Virtualization solution	compliance with the Windows 10 Desktop App Certification
The testing is performed automatically on the dedicated and configured virtual machine. Usage of a virtual machine is required to eliminate the possible negative effect of the installation/removal failure. Testing process Select package * -> Run VM -> Check VM prenequisites -> Transfer package to VM -> Perform testing -> Save report -> Restore VM. One-time VM configuration process Install PACE tools & Windows SDK on VM* -> Enter VM connection details* -> Verify connection to VM * manual actions	PPAS-C-Win10-1803-x64-06	VMware ESXi (Host: 172.27.130.5)	Program or your UWP app to ensure that it is ready for the Windows Store.
			The testing is performed automatically on the dedicated and configured virtual machine. Usage of a virtual machine is required to eliminate the possible negative effect of the installation/removal failure. Testing process Select package* -> Run VM -> Check VM prerequisites -> Transfer package to VM -> Perform testing -> Save report -> Restore VM. One-time VM configuration process Install PACE tools & Windows SDK on VM* -> Enter VM connection details* -> Verify connection to VM * manual actions
Configure new vivi	Test package Configure new VM		See User manual online





 Select the MSIX/APPX package or bundle, which you want to test, in the Package field. Afterwards, click Next.

Quality Approver - Testing					_		×
	Package	Testing	Completion				
Package selection							
Select an MSI or MSIX/APPX packa	age to test. If the MSI p	ackage require	s external files, ensure	e that they are also	o selecte	ed.	
C:\Users\victor.feschenko\Downk	oads\7-Zip19.00_19.0.0	.0_neutral_AOI9	gkkEaWdox.msix		В	rowse	

• Wait until the wizard has started the virtual machine, checked the prerequisites, transferred the package to the VM and tested the package. Once it is completed, the wizard moves to the next step automatically.



Quality A	pprover - Testing					_	
		Ø					
		Package	Testing	Completion			
Packag	e testing						
Runni	ng the virtual machine						
	ring the prerequisites						
Transf	ferring package to the v	irtual machine					
né Testin	g the package						
VENT LO	g the package G					0	pen log
Elapsed	g the package G Task				Sta	O atus	ipen log
EVENT LOO Elapsed 00:02:23	g the package G Task Copying the package to th	e virtual machine			Sta	O atus ompleted	ipen log
Elapsed 00:02:23 00:02:36	g the package G Task Copying the package to th Testing - Detect app type f	e virtual machine rom package			Sta Co Co	O atus ompleted	ipen log
EVENT LOC Elapsed 00:02:23 00:02:36 00:02:36	g the package G Task Copying the package to th Testing - Detect app type f Testing - Clear the network	e virtual machine irom package c isolation loopback exem	ption		Sta Co Co	O atus ompleted ompleted	ipen log
Elapsed 00:02:23 00:02:36 00:02:36	g the package G Task Copying the package to th Testing - Detect app type f Testing - Clear the network Testing - Extract files from	e virtual machine rom package k isolation loopback exem package	ption		Sta Co Co Co Co	ompleted ompleted ompleted ompleted	ipen log
Elapsed 00:02:23 00:02:36 00:02:36 00:02:36 00:02:36	g the package G Task Copying the package to th Testing - Detect app type f Testing - Clear the network Testing - Extract files from Testing - Performs app pac	e virtual machine rom package k isolation loopback exem package ikage deployment/cleanu	ption p in the IDE scenar	io	Sta Co Co Co Co Co	O atus ompleted ompleted ompleted ompleted	ipen log
Testin EVENT LO Elapsed 00:02:23 00:02:36 00:02:36 00:02:36 00:02:36 00:02:36 00:02:36 00:02:36	g the package G Task Copying the package to th Testing - Detect app type f Testing - Clear the network Testing - Extract files from Testing - Performs app pac Testing - Modify status of f	e virtual machine irom package c isolation loopback exem package kage deployment/cleanu the TAEF service	ption p in the IDE scenar	io	Sta Co Co Co Co Co Co	O atus ompleted ompleted ompleted ompleted ompleted	ipen log
Testin EVENT LOC Elapsed 00:02:23 00:02:36 00:02:36 00:02:36 00:02:36 00:02:36 00:02:36 00:02:36 00:02:36 00:02:36	g the package G Task Copying the package to th Testing - Detect app type f Testing - Clear the network Testing - Extract files from Testing - Performs app pac Testing - Modify status of t Testing - Program inventor	e virtual machine rom package k isolation loopback exem package kage deployment/cleanu the TAEF service Y	ption p in the IDE scenar	i0	Sta Co Co Co Co Co Co Co Co	ompleted ompleted ompleted ompleted ompleted ompleted ompleted	ipen log
Elapsed 00:02:23 00:02:36 00:02:36 00:02:36 00:02:36 00:02:36 00:02:36 00:02:36	g the package G Task Copying the package to th Testing - Detect app type f Testing - Clear the network Testing - Extract files from Testing - Performs app pac Testing - Modify status of t Testing - Program inventor Testing - App resources	e virtual machine rom package k isolation loopback exem package kage deployment/cleanu the TAEF service Y	ption p in the IDE scenar	io	Sta Co Co Co Co Co Co Co Co Co Co	O atus ompleted ompleted ompleted ompleted ompleted ompleted ompleted	ipen log

• Use Save report and Open report controls to save locally and review the obtained HTML report. By default, the virtual machine will be restored to the previous state, as it has before testing. In order to leave the virtual machine at the current state, untick the Restore the virtual



CE Suite 5.3.1 - Getting Started				•		
machine to the previous	state checkbox ar	nd click Finis	sh.			
Quality Approver - Testing					- 0	×
						
	Package	Testing	Completion			
Completion						
The testing process has been co	mpleted					
Overal testing result: PASSED						
Save report Open repo	ort					
This result was obtained with Wi	indows App Certification	Kit.				
Restore the virtual machine to	o the previous state					

Finish

Cancel



• Find the test results, the potential impact of issues and the suggested fixes in the obtained report. Here is the sample test report:

```
Microsoft Windows 10 Enterprise (10.0.17134.0)
OS Architecture:
x64
Report time:
27.07.2019 00:05:57
```

Overall result: PASSED

Package compliance test

PASSED

App manifest

PASSED Resource Packages

Windows security features test

PASSED Banned file analyzer

PASSED Private code signing

Supported API test

PASSED

Supported APIs



4.12 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 MST from MSI	
Save	Ctrl + S
Save as	
Create MSP against origina	al MSI
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.

le Open				×
\leftarrow \rightarrow \checkmark \uparrow \square $>$ This PC	> Desktop	√ Ō	Search Desktop	Q
Organize 🔻 New folder				• 🔳 💡
Ni	ame	Date modified	Туре	Size
	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 Open	(*.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



							×
CCM server	Package definition	Display information	Publish options	Select files	Publishing		
er and net	twork share	e settings					
dress or hostna	ame of SCCM se	rver					
			Password				
session creder	ntials						
k shara whara							
ackages	packages will be	e uploaded					
oackages	packages will be	e uploaded	Password				
session creder	packages will be	e uploaded	Password				
session creder	packages will be	e uploaded	Password				
session creder	ntials	e uploaded	Password				
session creder	ntials	e uploaded	Password				
sess	ion crede	are where packages will be ges ion credentials	ion credentials	Password	Password ion credentials	Password ion credentials	Password ion credentials

• Select a suitable publishing model and click Next.

🔋 Publish pa	ckage to SCCM					_		×
	~							
	SCCM server	Package definition	Display information	Publish options	Select files	Publishing		
Package	e definition co	onfiguratio	n					
 Publish at The class 	s a package ic way SCCM has us	ed in the past fo	or deploying softwa	are to devices a	nd is fully support	ed in SCCM 2007	7-2012	
 Publish a This way smart dependent 	s an application (rec is supported only b ployment	commended for y SCCM 2012. A	SCCM 2012) pplications are simi	ilar to packages	, but contain more	e information to	support	
\land Warning	! Version of the spe	cified SCCM ser	ver could not be d	etected.				
					< Back	Next >	Cancel	

• Review and update package display information such as name, manufacturer, version and others. Click Next to choose publish options.

0 -							
SCCM ser	ver Package definitior	Display n information	Publishing options	Select files	Publishing		
Display informati	ion						
lame							
PACE Suite							
lanufacturer							
Infopulse							
ersion							
5.0.0.8							
anguage							
English							
escription							
Infopulse - PACE Suite -	5.0.0.8						
				/ Back	Nauk N	Caraal	
lect the necessa	ary publish c	ontions and cli	ck Nevt		IVext 7	Cancel	
lect the necessa Publish package to SCCM	ary publish c 1	options and cli	ick Next.				>
lect the necessa Publish package to SCCN	ary publish c 1	options and cli	ick Next.				>
lect the necessa Publish package to SCCM C- SCCM ser	ary publish c 1 ver Package definition	Display n information	ck Next. Publish options	Select files	Publishing		>
lect the necessa Publish package to SCCM Com SCCM ser Publish options	ary publish c 1 ver Package definition	Display Display	ck Next. Publish options	Select files	Publishing		>
lect the necessa Publish package to SCCM C SCCM ser Publish options	ery publish c ver Package definition	Display Display	ck Next. Publish options	Select files	Publishing		>
Iect the necessa Publish package to SCCM Common SCCM ser Publish options Installation behavior Install for system	ary publish c 1 ver Package definition	Display n information	Ck Next.	Select files	Publishing		>
lect the necessa Publish package to SCCM Common SCCM ser Publish options Installation behavior Install for system logon requirement	ver Package definition	Display n information	Ck Next.	Select files	Publishing		>
lect the necessa Publish package to SCCM Common SCCM ser Publish options Installation behavior Install for system Install for system Install for system	ver Package definition	Display Display	Publish options	Select files	Publishing		>
lect the necessa Publish package to SCCM Common SCCM ser Publish options Installation behavior Install for system logon requirement Whether or not a user is bevice restart	ver Package definition	Display n information	Ck Next.	Select files	Publishing		>
lect the necessa Publish package to SCCM Construction SCCM ser Publish options Installation behavior Install for system logon requirement Whether or not a user is Device restart Determine behavior base	ed on return codes	Display n information	Publish options	Select files	Publishing		>
lect the necessa Publish package to SCCM Common SCCM ser Publish options Installation behavior Install for system Install for s	ver Package definition	Display n information	Publish options	Select files	Publishing		>
lect the necessa Publish package to SCCM Common SCCM ser Publish options Installation behavior Install for system Install for s	ed on return codes	Display n information	Publish options	Select files	Publishing		~
Publish package to SCCM Publish package to SCCM SCCM ser Publish options Installation behavior Install for system logon requirement Whether or not a user is Device restart Determine behavior base Maximum allowed run time (r 120	ver Package definition	Display n information	Ck Next.	Select files	Publishing		~
lect the necessa Publish package to SCCM Construction SCCM ser Publish options Installation behavior Install for system ogon requirement Whether or not a user is Device restart Determine behavior base Maximum allowed run time (r 120	ary publish c ver Package definition logged on ed on return codes minutes)	Display n information	Ck Next.	Select files	Publishing		~
lect the necessa Publish package to SCCM Conservation SCCM servation Publish options Installation behavior Install for system Install for system I	ver Package definition	Display n information	Publish options	Select files	Publishing		>
lect the necessa Publish package to SCCM Construction SCCM ser Publish options Installation behavior Install for system Install	ver Package definition	Display Display information	Ck Next.	Select files	Publishing		>
lect the necessa Publish package to SCCM Construction SCCM ser Publish options Installation behavior Install for system ogon requirement Whether or not a user is Nevice restart Determine behavior base faximum allowed run time (r 120	ery publish c	Display n information	Publish options	Select files	Publishing		>
lect the necessa Publish package to SCCM Common SCCM ser Publish options Installation behavior Install for system ogon requirement Whether or not a user is revice restart Determine behavior base taximum allowed run time (r 120	ver Package definition	Display Display information	Ck Next.	Select files	Publishing		>
lect the necessa Publish package to SCCM Construction SCCM ser Publish options Installation behavior Install for system Ogon requirement Whether or not a user is Device restart Determine behavior base Maximum allowed run time (r 120	ed on return codes minutes)	Display n information	Publish options	Select files	Publishing		>

• 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 pack	kage to SCCM					_		×
								
	SCCM server	Package definition	Display information	Publishing options	Select files	Publishing		
Select file	es							
Select files wh	nich also should be	e copied to netv	vork share within t	he package				
□ Select all/	(none							
🗆 🗁 Source	es							
🗆 📄 deskto	p.ini							
					< Back	Next >	Cancel	
					L			

• Wait while the opened package is publishing to the specified SCCM server.

Publish page	ckage to SCCM							×
								
	SCCM server	Package definition	Display information	Publishing options	Select files	Publishing		
Publishi	ng							
SCCM serve Application:	r: test Infopulse - PACE Su	uite - 5.0.0.8						
		Starting						
					< Back	Finish	Cancel	

4.13 Get MSI 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.





• Choose an MSI package, for which you want to generate a package report and click Open.

Open				×
← → × ↑ 🗔 > This PC	> Desktop	ٽ ~	Search Desktop	م
Organize 👻 New folder			:== :==	• 🔳 🕜
Quick access M Desktop // Downloads // Documents // Pictures // Pictures // Pictures // Pictures Pictures Pictures Pins PC Pitwork	lame 号 PACE_v4.7.0.msi 링 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
• 4 Homegroup File <u>n</u> ame:	PACE_v5.0.0.msi		All Supported Files	(*.msi;*.msl ∨ 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 Report	
Create a document containing general information about the services, shortcuts, properties, upgrades and more.	package, custom actions,
Select a document template for the package report	
Template	
PACE - Package Report.docx	✓ Browse
	How to create a new template
Open the report after creation	
Generate Close	

• Specify a file name and a destination location of the generated package report and click Save.

🕲 Save As					×
\leftrightarrow \rightarrow \checkmark \bigstar	> This PC > Desktop >	ٽ ~	Search Desktop		P
Organize 🔻 🛛 Ne	ew folder				?
📌 Quick access	▲ Name	Date modified	Туре	Size	
 Desktop Downloads Documents Pictures OneDrive 	x Sources	10/3/2018 4:27 PM	File folder		
💻 This PC 💣 Network					
•4 Homegroup	~				
File <u>n</u> ame: Save as <u>t</u> ype:	PACE_v5.0.0 - Package Report.docx Word Document (*.docx)				~
∧ Hide Folders			<u>S</u> ave	Cancel	



4.14 Get MSI 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.

Solution Open					^
← → • ↑ 🗖	> This PC	> Desktop	√ Ū	Search Desktop	Q
Organize 👻 Ne	w folder			:== :==	• 🔳 🕐
🔹 Quick access	N	ame	Date modified	Туре	Size
	. 1	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	Я				
🔮 Documents	*				
Pictures	*				
OneDrive					
💻 This PC					
💣 Network					
🔩 Homegroup					
	File <u>n</u> ame:	PACE_v5.0.0.msi		 All Supported Files 	(*.msi;*.mst ∨
				<u>O</u> pen	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.

MSI Editor - PACE_v5.0.0.msi	- 🗆 X	
■ MENU Package Summary Package Designer Tables Ed	litor	
Application details	Complexity estimation	
Product name PACE Suite		
Product version 5.0.0.63		
Manufacturer Infopulse	Files: 423	
Product language 1033 (English (United States))	Registry: 52	
Package IDs	Complexity level: Custom actions: 18 Medium	
Product code {B0795614-9098-47A0-9371-1B78F69C9394}		
Upgrade code {9DEF97C4-E079-4D35-B6A8-2D3427FDA23F}	ICE errors: 72	
Package code {58FF1CA0-0525-43FB-96E6-08D9BA5F255A}		
Edit		
⑦ See User Manual online.	Recalculate 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					
🎒 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	



4.15 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.

🝥 Docu Generator	×
	Docu GENERATOR
Record scenario	Convert Scenario 🗸
i Start recording user actions Licensed for PACE Suite demonst	and making screenshots ration (Victor Feschenko)

 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: 1	recording	×
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 mouse click Ctrl + Shift + PrintScreen Alt + Ctrl + X	
II Pause	Stop 📑 Add Anno	otation 🔿 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.

Docu Generator:	recording	×
	Ô	Docu GENERATOR
C 200 Control of the second		>
4		÷.
II 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: recording.		×
		ocu GENERATOR
	Add annotation	>
💵 Pause 🔳 St	op 🔲 Add Annotation	A Hot Keys



• Click Stop to compete recording the scenario and proceed to saving results.

Docu Generator: recording		×
	Ô	Docu GENERATOR
Production P		>
4		
🔲 Pause 🔳 Stop	C+ 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		
☑ Save user actions 2	✓ Show started application info 2	
✓ 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 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.	
	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:	
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.



4.16 Command Line Options

PACE Suite - MSI Generator supports command line options that allows automation of the capturing (repackaging) process. The user can easily write a short script for running the pre-install and post-install scans with MSI Generator, apply the exclusion filters to the captured resources and generate the package.

NOTE: MSI Generator must be run with the administrative provileges.

MSI Generator syntax and options:

MsiGenerator.exe	<command/> [parameters]
USAGE:	
MsiGenerator.exe	<pre>-snapshot snapshotPath (scaningAreas)</pre>
MsiGenerator.exe	<pre>-compare firstSnapshotPath secondSnapshotPath projectFolderPath packageName</pre>
MsiGenerator.exe	-buildPackage projectPath msiPackagePath profileName

NOTE All parameters are mandatory and their order is strictly fixed.

Command	Description	
-snapshot	Record a state of the file system and registry into the snapshot.	
-compare	Compare two taken snapshots (usually pre-install and post-install) to discover changes that were made to the system. The detected changes will be saved to the project	
-buildPackage	Generate an MSI package from the project.	

Parameter	Applicability to the command	Description
snapshotPath	-snapshot	Defines the absolute path to and the name of the snapshot that will be created. Please use the default snapshot extension – *.msgn. <i>Example:</i> "C:\Snapshots\snapshot_N.msgn"
scaningAreas	-snapshot	This is an optional compound parameter that defines what system areas will be scanned. If this parameter is not set, all areas will be scanned. Available scanning areas: registry=" <reg hives="">" where "*" - scan all hives; "" (i.e. empty string) – do not scan hives; and "HKLM HKCU HKU\.DEFAULT" – scan specific hives, separated by space. Supported hives: HKLM HKCU HKU\.DEFAULT</reg>



PACE Suite 5.3.1 - Getting	g Started	
PACE Suite 5.3.1 - Gettin	g Started	<pre>localdrives="<drives>" where "*" - scan all drives; "" (i.e. empty string) - do not scan drives; and "C: D: E:" - scan specific drives, separated by space. permissions="<true false="">" services="<true false="">" devices="<true false="">" NOTE Set at least one local drive or one registry hive to take a system snapshot. NOTE Take the pre-install and post-install snapshots with the same scanning areas to be able to compare them later. Evample 1 (scan only drive (:)):</true></true></true></drives></pre>
		registry="" localdrives="C:" permissions="true" services="false" devices="false"
		Example 2 (scan only HKLM and HKCU): registry="HKLM HKCU" localdrives="" permissions="true" services="false" devices="false"
firstSnapshotPath	-compare	Difines the absolute path to the first (pre-install) snapshot. The second (post-install) snapshot will be compared against this snapshot. Example: "C:\Snapshots\snapshot_1.msgn"
secondSnapshotPath	-compare	Difines the absolute path to the second (post-install) snapshot. <i>Example:</i> "C:\Snapshots\snapshot_2.msgn"
projectFolderPath	-compare	Defines the absolute path to the common output folder for projects. NOTE The created project file will be placed to this common output folder using the following structure: <packagename>\<packagename>.mgp. Where packageName is the next parameter. Example: "C:\Projects"</packagename></packagename>
packageName	-compare	Defines names of the project subfolder, project file, MSI package file. <i>Example: "PACE Suite 5.3</i> "
projectPath	-buildPackage	Defines the absolute path to the MGP project file from which the MSI package will be created. <i>Example:</i> "C:\Projects\PACE Suite 5.3\PACE Suite 5.3.mgp"
msiPackagePath	-buildPackage	Defines the absolute path to and the name of the MSI package that will be generated from the MGP project file. NOTE If the applied MSI Settings Profile (profileName) defines package compression type as Uncompressed files, consider saving the MSI package to the additional subfolder in order to eliminate conflicts between the package external files and project resources. <i>Example: "C:\Projects\PACE Suite 5.3\MSI\pace_suite_5.3.msi"</i>
pg. 485		

profileName -buildPackage	Defines a name of the MSI Settings Profile that will be used for creating the MSI package. The MSI Settings Profile defines MSI package settings such as compression type, summary information, the use of advertising tables, default properties, per-user data handing and many more. <i>Example: "default"</i>
---------------------------	--

Examples:

NOTE By default, *MsiGenerator.exe* could be found at <u>C:\Program Files (x86)\PACE Suite\MSI Generator\</u> (the path may differ, if you have changed the default PACE Suite installation directory).

```
:: Running pre-install scanning (taking first snapshot)
"C:\Program Files (x86)\PACE Suite\MSI Generator\MsiGenerator.exe" -snapshot "C:\Snapshots\
snapshot 1.msgn" registry="*" localdrives="C:" permissions="true" services="true"
devices="true"
:: Running source installation
<command to run the source installation in the unattended mode>
:: Running post-install scanning (taking second snapshot)
"C:\Program Files (x86)\PACE Suite\MSI Generator\MsiGenerator.exe" -snapshot "C:\Snapshots\
snapshot 2.msgn" registry="*" localdrives="C:" permissions="true" services="true"
devices="true"
:: Creating project (comparing first and second snapshots)
"C:\Program Files (x86)\PACE Suite\MSI Generator\MsiGenerator.exe" -compare "C:\Snapshots\
snapshot_1.msgn" "C:\Snapshots\snapshot_2.msgn" "C:\Projects" "PACE Suite 5.3"
:: Building MSI package from project
"C:\Program Files (x86)\PACE Suite\MSI Generator\MsiGenerator.exe" -buildPackage "C:\Projects\
PACE Suite 5.3\PACE Suite 5.3.mgp" "C:\Projects\PACE Suite 5.3\MSI\pace_suite_5.3.msi"
"default"
```



5 References



5.1 Contact

Product website <u>http://pacesuite.com</u>

Support email pace-support@infopulse.com

Support Portal <u>http://pacesuite.com/support</u>

Educational videos YouTube channel

5.2 Social Networks



