RELEASE NOTES

PACE Suite 5.0



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1 PACE Suite Overview

PACE Suite is an advanced and fast software packaging tool with an intuitive user interface and set of features providing (re)packaging in Windows Installer, APPX and various virtualized formats.

1.1 Key Advantages

- Out-of-the-box application packaging solution
- Intelligible wizards for running complex user scenarios
- High performance when generating large packages
- Per-user license valid for any number of physical and virtual machines

1.2 PACE Components

PACE Suite consists of the following components:

MSI GENERATOR	 Repackage any existing installation into Windows Installer (MSI), UWP app package (APPX) or a virtualization format (Microsoft App-V 5.x, and VMware ThinApp). Auto-detection of embedded installers. Create a response transform Tune any existing Windows Installer package by applying your settings and saving them as a Windows Installer transform (MST). Include the excluded files/registry back to a package
MSI EDITOR	 Manage the contents of an MSI in a tree view Import the necessary resources Edit and manage Custom Actions and Device Drivers Integrate scripts into your package Use a smart and advanced MSI database editor, with formatted string autocompleting, Excel-like formula bar, row reference tracking, and more. Create patches (MSP) 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. 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
DOCU GENERATOR	• Automatically record your on-screen actions into a nice-looking document with screenshots and annotations





1.3 System Requirements

Ensure that a target system contains necessary software prerequisites:

	Windows 10/8.1/8/7 SP1, Windows Server 2016/2012/2008 R2 SP1
OS	NOTE Building Universal Windows Platform app packages (APPX) is available under Windows 10 or Windows Server 2016 or newer.
	Microsoft .NET Framework 4.6.2 (<u>https://www.microsoft.com/en-</u> <u>us/download/details.aspx?id=53345</u>) or higher.
Middleware	NOTE For building THINAPP packages, ensure that your system contains VMware ThinApp (5.0.0/5.0.1/5.1.0/5.1.1/5.2.0) installed.
	NOTE For publishing MSI packages to Microsoft SCCM 2007 (SP1/SP2/R1/R2) or SCCM 2012 (SP1/SP2/R2/R2 SP1) server, ensure that your system contains Microsoft Management Framework 3.0 and Windows Remote Management (WinRM) service enabled.
Privileges	Administrative privileges on the system.

1.4 Hardware Requirements

Ensure that a target system fulfils the minimum hardware conditions:

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





2.1 About This Release

Meet our redesigned and dramatically improved **MSI Editor in PACE Suite 5.0**. This new major release extends the beloved user experience from the Files and Registry tabs to other tabs, such as Shortcuts, Features-Components, and Properties. Unque design and approach make it much easier to manage package resources and package structure for both newcomers and packaging ninjas. New TreeList view, Details pane, and Properties windows provide the maximum information about each selected entry and allow to manage them. Navigate through all your changes thanks to colourful highlights, and undo any operation if necessary. Finally, we got your back if you make an error - lots of validation rules instantly show potential issues with the package before you save it.

As requested by our users, management of the Summary Information of transforms (MST) has been added to PACE Suite 5.0. MSI and MST Summary Information have been moved to the separate tab that shows its details with a helpful description.

Reported and found bugs have been evacuated from the product. Enjoy new PACE Suite 5.0!





2.2 New features of MSI Editor

2.2.1 Easier navigation

To make the navigation through package resources easier, we grouped the existing views under new **Package Designer** tab. This tab has the following groups: **(1) Package resources** group that displays content of the package, installed to the target system; and the **(2) Package configuration** group that defines package structure and settings. More views will be added in the next releases.

MENU Summary Pac	kage Designer Tables Editor					
Package resources	Files and folders	412 files	(135,9 MB) 💙	Collapse all	Show de	tail
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	
Features and components	😠 🔤 Docu Generator	Folder			Directory	
Properties	MSI Editor (ID: MSIEDITORROOT)	Folder			Directory	
-	MSI Editor (ID: EDITORINSTALLDIR)	Folder			Directory	
Summary information	EditorUtil_x64.exe	EXE	7,0 KB	4.7.0.224	File	
- Media	EditorUtil_x64.exe.Config	CONFIG	186 Bytes		File	
	EditorUtil_x86.exe	EXE	7,5 KB	4.7.0.224	File	
	EditorUtil_x86.exe.Config	CONFIG	186 Bytes		File	
	MsiEditor.exe	EXE	510,0 KB	4.7.0.224	File	
	MsiEditor.exe.Config	CONFIG	5,3 KB		File	
	MsiEditor.exe.manifest	MANIFEST	6,0 KB		File	
	MsiEditor.inf	INF	988 Bytes		File	
	MSI Generator (ID: MSIGENERATORROOT)	Folder			Directory	
	MSI Generator (ID: MSIGENINSTALLDIR)	Folder			Directory	
	Prerequisites	Folder			Directory	
	EULA.rtf	RTF	115,3 KB		File	
	Release notes.pdf	PDF	1,1 MB		File	
	Release notes.xps	XPS	1,2 MB		File	
	ProgramMenuFolder	Folder			Directory	
	PACE Suite (ID: DOCUSHORTCUTLOCATION)	Folder			Directory	
	PACE Suite (ID: EDITORSHORTCUTLOCATION)	Folder			Directory	

2.2.2 New Shortcuts tab

Highlights:

- User-friendly tree list view
- Highlighting of changes
- Comprehensive validation
- Rich editor for every item's details
- Easy Advertised-Regular shortcut conversion
- Moving shortcuts with one click
- Folder management





Enjoy a user-friendly tree list view on the **Shortcuts** tab and find all LNK and URL shortcuts from both "Shortcut" and "IniFile" tables. This view makes it easier to see all shortcuts of all folders – just click **Expand all** to see everything that is in your package.

In the tree list, you can immediately see shortcut type, advertisement option, and its target. All added, modified, or removed resources are highlighted with colours, and you can quickly undo any of your changes.

The **Shortcuts** tab has a vast amount of validation rules so you can fix errors before testing or saving your package. The number of validation errors is calculated and displayed in the status bar below the tree list, so you will not miss any errors.

MSI Editor - PACE_v4.7.0.msi	ackage Designer Tables Editor				
Package resources	Shortcuts			7 shortcuts 💙 Collapse all	Show details
Files and folders	Name		Туре	Target	MSI table
📌 Shortcuts	TARGETDIR		Folder		Directory
🗞 Registry	DesktopFolder		Folder		Directory
Custom actions	Docu Generator.ink		Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
🐓 Drivers	MSI Editor.Ink		Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor)	Shortcut
Package configuration	MSI Generator.ink		Advertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut
Features and components	Program Files Folder		Folder		Directory
P Properties	ProgramMenuFolder		Folder		Directory
-	PACE Suite (ID: DOCUSHORTCUTLOCATION)		Folder		Directory
Summary information	🔘 Docu Generator.Ink	0	Advertised shortcut	DocuGenerator (ProgramFilesFolder\PACE Suite\Docu	Shortcut
📇 Media	PACE Suite (ID: EDITORSHORTCUTLOCATION)		Folder		Directory
	MSI Editor.Ink		Advertised shortcut	MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor\	Shortcut
	PACE Suite (ID: InfopulseProgramMenuFolder)		Folder		Directory
	🎌 Release Notes.ink		Advertised shortcut	PaceManual (ProgramFilesFolder\PACE Suite\Release	Shortcut
	📜 User-Manual.ink		Regular shortcut	{MANUALURL}	Shortcut
	PACE Suite (ID: SHORTCUTLOCATION)		Folder		Directory
	MSI Generator.Ink		Advertised shortcut	MsiGenerator (ProgramFilesFolder\PACE Suite\MSI Ge	Shortcut
	WindowsFolder		Folder		Directory

The rich details of each shortcut are displayed in the Details pane – just click **Show details** to see them. You will find all available shortcut details such as icon, name, folder, shortcut type, target and others.



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MSI Editor - PACE_v4.7.0.msi				- 🗆 X		
≡ MENU Summary Packa	age Designer Tables Editor					
🗸 📁 Package resources	Shortcuts 7 shortcuts	Collapse all		Hide details		
 Files and folders Shortcuts Registry 	Name TARGETDIR DesktopFolder		Summary			
 Custom actions Drivers Package configuration 	Docu Generator.ink G MSI Editor.ink G MSI Generator.ink		Name MSI Editor.Ink			
 Features and components Properties 			Target (installation) folder DesktopFolder (ID: DesktopFolder)			
Summary information	Docu Generator.Ink PACE Suite (ID: EDITORSHORTCUTLOCATION) MSI Editor.Ink	•	General Shortcut type			
PACE Suite (ID: InfopulseProgramMenuFolder) Release Notes.Ink User-Manualunk			Advertised shortcut Shortcut target MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor\MsiEditor.exe)			
	PACE Suite (ID: SHORTCUTLOCATION) MSI Generator.ink MindowsFolder		Arguments None Start in (WkDir)			
				\MSI Editor (ID: EDITORINSTALLDIR)		
			MSI table Shortcut	Identifier MsiEditor.exe_shortcut_desktop		
				Hot key None		
	Add • Remove		Component_ MsiEditor.exe	Description MSI Editor.exe		

All shortcut's details can be edited in the **Properties** windows. For instance, you can select new shortcut icon from the list or import it from the file system, change identifier, name, folder, shortcut type, target, working directory, hotkey and others. Also, we have significantly improved the mechanism of icon extaction and import - now it works really fast.



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Properties				_		×
MSI table: 'Sh	ortcut'					
Name			Identifier			
MSI Editor			MsiEditor.exe_	short	cut_desk	top
Target (installation) folder						
DesktopFolder (ID: DesktopFolder)				Browse	
General Shortcut type Advertised shortcut C Regular (non-advertised) shortcut	ıt					
Shortcut target MsiEditor (ProgramFilesFolder\PACE Suite\MSI Editor\MsiEditor.exe) Browse						
MsiEditor (ProgramFilesFolder\PA	CE Suite\MSI Edit	or\MsiE	ditor.exe)		Browse	
Arguments						
Start in (WkDir)						
Folder						\sim
ProgramFilesFolder\PACE Suite\MS	SI Editor (ID: EDI	TORINST	TALLDIR)		Browse	
Details Component_ MsiEditorexe		~	Run Normal windov	~		~
		•		v		•
Description			Hot key			
MSI Editor.exe						
	Save	Cancel				
	Jave	Cancel				

Easily move shortcuts using the context menu – just select **Move to** from the context menu and then choose a new destination folder from the folders tree.

Using the Shortcuts tab, you can create a new shortcut of any type, add folders and import shortcuts from the file system.



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🎌 Release	Notes.Ink					
💢 User Manual.ink						
🖃 🔛 PACE Suite (PACE Suite (ID: SHORTCUTLOCATION)					
i MSI Gen	erator.lnk					
WindowsFolder						
lucio e et els estesistes						
Import shortcuts						
Shortcut						
Subfolder						
Curtains failaises						
System folders						
Add 🔺 Rei	nove					

2.2.3 New Features and components tab

Highlights:

- User-friendly tree list view
- Highlighting of changes
- Comprehensive validation
- Rich editor for every item's details
- Moving features and components with one click
- Displaying component resources

Enjoy a user-friendly tree list view on the **Features and components** tab that displays features, components and resources, linked with the components. Now three different views are available: only features, only components, and features and components. Respectively, you can collapse or expand all tree list elements to overview the package structure.

In the tree list, you can immediately see feature options, empty and non-empty components, component key path, conditions, presence of the 64-bit attribute, resources, linked with the components. All added, modified, or removed resources are highlighted with colours, and you can quickly undo any of your changes.

The **Features and components** tab also has a vast amount of validation rules so you can fix errors before testing or saving your package. The number of validation errors is calculated and displayed in the status bar below the tree list, so you will not miss any errors.



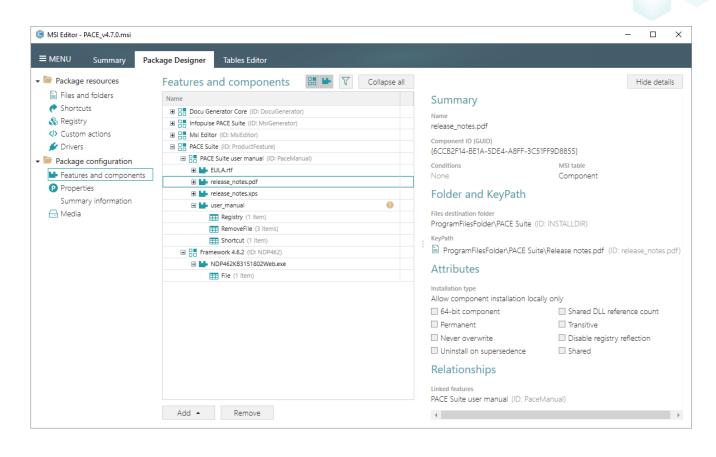
PACE Suite 5.0

■ MENU Summary Package Designer Tables Editor Image: Package resources Image: Pa	v details
Package resources Features and components Image: Collapse all Show Image: Program Flies Folder PACE Suite (D: DocuGenerator) Feature (Do not install, Visible Image: Collapse all Show Image: Program Flies Folder PACE Suite (D: MsiGenerator) Feature (Do not install, Visible Image: Collapse all Show Image: Program Flies Folder PACE Suite (D: MsiGenerator) Feature (Do not install, Visible Image: Collapse all Show Image: Package configuration Image: Pack Suite (D: MsiGenerator) Feature (Do not install, Visible Image: Package configuration Image: Program Flies Folder PACE Suite (D: Product Feature) Image: Package configuration Image: Program Flies Folder PACE Suite VELLArtf (ID: EULArtf) Image: Program Flies Folder PACE Suite VELLArtf (ID: Product Feature) Image: Program Flies Folder PACE Suite VELLArtf (ID: EULArtf) Image: Program Flies Folder PACE Suite VELLArtf (ID: Product Feature) Image: Program Flies Folder PACE Suite VELLArtf (ID: EULArtf) Image: Program Flies Folder Pack Suite VELLArtf (ID: Product Feature) Image: Program Flies Folder PACE Suite VELLArtf (ID: EULArtf) Image: Program Flies Folder Pack Suite VELLArtf (ID: EULArtf) Image: Program Flies Folder PACE Suite VELLArtf (ID: EULArtf) Image: Program Flies Folder PACE Suite VELLArtf (ID: EULArtf) Image: Program Flies Folder PACE Suite VELLArtf (ID: EULArtf)	v detail:
Files and folders Name Type KeyPath	v detail:
Name Type Regram Shortcuts Image: Docu Generator Core (ID: DocuGenerator) Feature (Do not install, Visible Custom actions Image: Docu Generator Core (ID: MaiGenerator) Feature (Do not install, Visible Drivers Image: Docu Generator (DD: MaiGenerator) Feature (Do not install, Visible Package configuration Image: Docu Generator (DD: ProductFeature) Feature (Do not install, Visible Image: Decude configuration Image: Docu Generator (DD: ProductFeature) Feature (Do not install, Visible Image: Decude configuration Image: Docu Generator (DD: ProductFeature) Feature (Do not install, Visible Image: Decude configuration Image: Docu Generator (DD: ProductFeature) Feature (DD not install, Visible Image: Decude configuration Image: Docu Generator (DD: ProductFeature) Feature (DD not install, Visible Image: Decude configuration Image: Docu Generator (DD: ProductFeature) Feature (DD not install, Visible Image: Decude configuration Image: Docu Generator (DD: ProductFeature) Image: Docu Generator (DD: ProductFeature) Image: Decude configuration Image: Docu Generator (DD: ProductFeature) Image: Docu Generator (DD: ProductFeature) Image: Decude configuration Image: Docu Generator (DD: ProductFeature) Image: Docu Generator (DD: ProductFeature) Image: Decude configuraticon Image: Docu Generatore (DD: ProductFeature	
Component ProgramFilesFolder/PACE Suite XDE ProgramFilesFolder/PACE Suite XDE ProgramFilesFolder/PACE SuiteXDE ProgramFilesFolder/PACE Sui	
Package configuration Image: Pack Suite user manual (ID: PaceManual) Feature (Do not install, Visible Features and components Image: Pack Suite user manual (ID: PaceManual) Component Image: Pack Suite user manual (ID: PaceManual) Properties Image: Pack Suite user manual (ID: PaceManual) Component Image: Pack Suite user manual (ID: PaceManual) Properties Image: Pack Suite user manual (ID: PaceManual) Component Image: Pack Suite User Manual) Image: Pack Suite user manual (ID: PaceManual) Component Image: Pack Suite User Manual) Image: Pack Suite User Manual) Image: Pack Suite User Manual) Image: Pack Suite User Manual) Image: Pack Suite User Manual) Image: Pack Suite User Manual) Image: Pack Suite User Manual) Image: Pack Suite View Suite Vi	
Properties ProgramFilesFolder/PACE Suite\EULArtf (ID: EULArtf) B ProgramFilesFolder/PACE Suite\Eulartf	
Image: Section 2 Image: Section 2 Program Files Folder/PACE Suite/EULArtf (ID: EULArtf) Image: Properties Image: Section 2 Component Image: Program Files Folder/PACE Suite/Release notes.pdf Component Image: Program Files Folder/PACE Suite/Release notes.pdf Component Image: Program Files Folder/PACE Suite/Release notes.pdf Image: Progra	
Properties	
🖶 🔛 release notes.xps 🛛 🖾 Component 🖾 ProgramFilesFolder\PACE Suite\Release notes.xps	
Summary information 🛛 🖶 user_manual	aFile∖N
A Media Experimental Registry (1 item) Linked resources	
EmoveFile (3 items) Linked resources	
Shortcut (1 litem) Linked resources	
Framework 4.6.2 (ID: NDP462) Feature (Do not install, Visible	
🖬 🔛 NDP462K83151802Web.exe Component 📄 ProgramFilesFolder\PACE Suite\Prerequisites\NDP462-1	(B3151
File (1 litem) Linked resources	

The rich details of each resource are displayed in a respective Details pane – just click **Show details** to see them. For instance, for features, you can review title, identifier, description, folder and attributes such as Initial installation state, installation type, display and advertise options. For components, you can review its name, GUID, conditions, folder, key path, attributes and relationship between the features. For linked resources, you can review their content showcased in tables.



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All feature and component details can be edited in the respective Properties windows.



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Properties		- 0	×		
General Attributes	Relationships				
MSI table: 'Component'					
Name					
release_notes.pdf					
Component ID (GUID)					
{6CCB2F14-BE1A-5DE4-A8FF-3C51FF9D8855}		New			
Conditions					
Folder and KeyPath					
Files destination folder					
ProgramFilesFolder\PACE Suite (ID: INSTALLDIR)		Browse.			
NOTE Changing this folder leads to changing the Tar KeyPath type	rget folder for all the co	mponent file	25.		
File			~		
KeyPath					
ProgramFilesFolder\PACE Suite\Release notes.pdf (ID: release_notes.pdf)	Browse.			
Save	Cancel				

You can move features and components in the context menu – just select **Move to** from the context menu and then choose a new destination from the features tree.

Using the Features and components tab you, can create a new features and a component.

Feature Component	
Add 🔺	Remove

2.2.4 New Properties tab

Highlights:

- Tidy list view
- Handy filters





• Highlighting of changes

The new **Properties** tab gathers properties from different places of a package and displays them in one location. This view displays initial property values and their further modifications by other tables. Properties are read from the Property, AppSearch, CustomAction, and UI tables such as CheckBox, ComboBox, Control, etc.

The property filters allow to control what properties will be displayed.

All added, modified, or removed properties are highlighted with colours, and you can quickly undo any of your changes.

MSI Editor - PACE_v4.7.0.msi MENU Summary Pa	ckage Designer Tables Editor		- 0	
Package resources	Properties		116 items	•
Files and folders	Name	Value	MSI table	
📌 Shortcuts	ProductCode	{0AA07054-8CD9-4A8B-AA5B-F5CFAC340637}	Property	
🗞 Registry	ProductLanguage	1033	Property	
Custom actions	ProductName	PACE Suite	Property	t
🐓 Drivers	ProductVersion	4.7.0.52	Property	1
Package configuration	P REBOOT	ReallySuppress	Property	
	P REBOOTPROMPT	S	Property	
Features and components	P RegType	Trial	Property	
Properties	P RegType	Key	RadioButton	
Summary information	RegType	Trial	RadioButton	
- Media	RegType		Control	
	RELEASEDAY	27	Property	
	RELEASEMONTH	9	Property	
	RELEASEYEAR	2018	Property	
	ROOTDRIVE	C:\	Property	
	SecureCustomProperties	CHECKMSIGENERATORINSTALLED;DOCUGENERATORINSTALLED;INSTALLDOCUGENERATOF	Property	
	SERIALKEY		CustomAction	
	SERIALKEY		Control	
	SetASScriptsFolderPermissions	secedit.exe /configure /DB "[database][ProductName]" /cfg "[#MsiEditor.inf]" /areas FILEST	CustomAction	
	SHORTCUTLOCATION	[PACE]	CustomAction	
	UpgradeCode	{9DEF97C4-E079-4D35-B6A8-2D3427FDA23F}	Property	
	WIX_IS_NETFRAMEWORK_462_OR_LATER_INSTALLED	1	CustomAction	
	WIXNETFX4RELEASEINSTALLED	NetFx4ReleaseInstalled	AppSearch	
	WixShellExecTarget	[PACETRIALURL]	CustomAction	
	WIXUI_EXITDIALOGOPTIONALCHECKBOX		Control	
	WIXUI_EXITDIALOGOPTIONALCHECKBOX	1	CheckBox	

Also, you can add new properties and modify existing ones via the Edit window.

Edit property			_	×
Name				
ProductName				
Value				
PACE Suite				
			1	
	Save	Cancel		



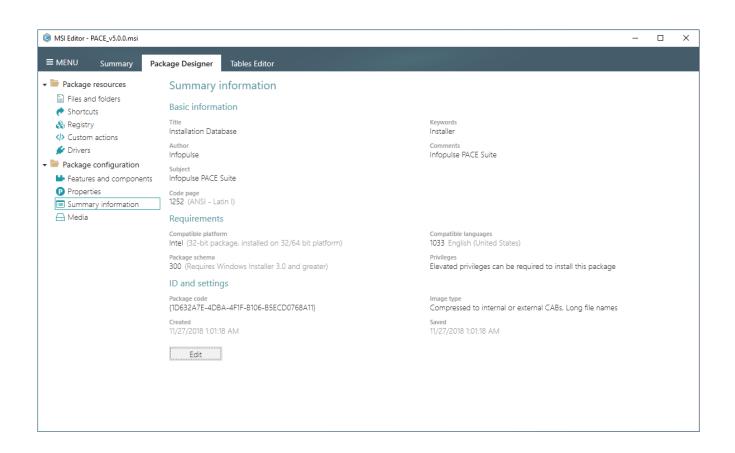


2.2.5 New Summary Information tab

We redesigned the way **Summary Information** is displayed. It allows you to easily find necessary values, and the added values' description explains the meaning of that value.

Key improvement here is managing Summary Information of the applied transform (MST) file.

As usual, lots of validation rules helps you ensure your package is of the highest quality. For instance, if a package contains 64-bit components, and the 32-bit compatible platform is selected, you will get the validation error that allows you to fix this issue before saving the package.



For editing Summary Information values, use the Edit properties window by clicking Edit.



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Summary information	×	
Basic information		
Title	Keywords	
Installation Database	Installer	
Author	Comments	
Infopulse	Infopulse PACE Suite	
Subject		
Infopulse PACE Suite		
Code page		
1252 (ANSI - Latin I) 🗸		
Requirements		
Compatible platform	Compatible languages	
Intel 🗸	1033 🗸	
Package schema	Privileges	
300 (Requires Windows Installer 3.0 and ç 💙	Elevated privileges can be required to ins $$	
ID and settings		
Package code		
{1D632A7E-4DBA-4F1F-B106-B5ECD0768A11}	New	
Image type		
Compressed to internal or external CABs, Lor	na file names 🗸 🗸	
NOTE Image type indicates where package file compression type for files, go to the Media tak		
compression type for mes, go to the media tat	J.	
Save	Cancel	

2.3 Other Improvements

2.3.1 MSI Editor

- Active Scripting was updated, and adding new scripts works as expected.
- Many enhancements to the internal mechanisms of MSI Editor boosted the overall speed of editing your packages.





3 Release History

- PACE Suite 4.7
- PACE Suite 4.6
- PACE Suite 4.5
- PACE Suite 4.4
- PACE Suite 4.3
- PACE Suite 4.2
- PACE Suite 4.1
- PACE Suite 4.0
- PACE Suite 3.5.5
- PACE Suite 3.5
- PACE Suite 3.4.2
- PACE Suite 3.4.1
- PACE Suite 3.4
- PACE Suite 3.3 3.3.1

