

RayPack

Release Notes RayPack 1.0 SP1







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Release Notes RayPack

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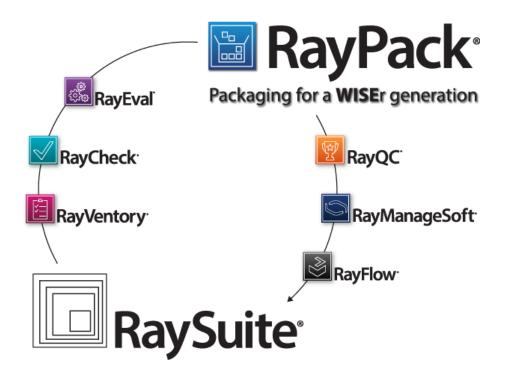
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Introduction

RayPack is a framework for the creation and management of software packages. It is designed to support a broad variety of package formats, target operating systems and deployment systems. RayPack is available as stand-alone product as well as having the ability to be integrated into the RaySuite solution powered by RayFlow.



The RayPack components allow enterprises to implement well-structured processes, which control package evaluation, creation, manipulation, import, export, validation, storage, and deployment.

In the upcoming release of 1.0 SP1, Raynet introduces core components of the framework, which allow users to create MSI packages from scratch or build them based upon the result of installation capturing processes on Windows platforms. It is also possible to extend standard installations with transform files (MST), and edit their native contents, and to create App-V packages from packaging projects.

Development Roadmap

Upcoming releases will introduce additional components, such as the PackBench packaging workflow management tool, the PackLib package database, and the PackBot for automated application conversion. Please contact your sales representative to take a detailed look at the RayPack development roadmap.



What's new

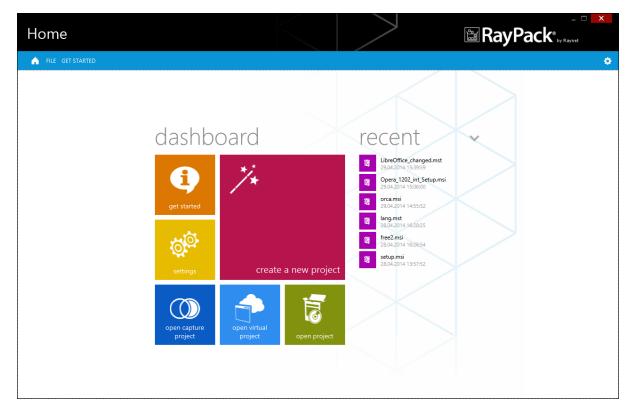
The following list is a collection of highlighted changes introduced in this version as compared to RayPack 1.0.0.1992:

- PackTailor a new module for producing response transforms created from user input and interaction with MSI dialogs,
- Enhancements of PackDesigner, specifically:
 - Permissions managament for deployable files, folders and registry keys, providing a robust, powerful and easy-to-use ways of adjusting or adding permissions on a target system,
 - $\circ\,$ The new $\,$ property manager view with the standard and predefined property browser $\,$
- Many enhancements based on user feedback,
- Performance and stability improvements.



Dashboard

RayPack launches a highly functional home screen with a tile based dashboard that offers quick access points to key functions and a user-specific history of recently active packaging projects. The recent list has an integrated filter function to reduce the displayed list of projects and packages to a specific format, such as RayPack packaging project files (.rcp), RayPack capture project files (.rcp), Windows installer packages (.msi), or transforms (.mst).



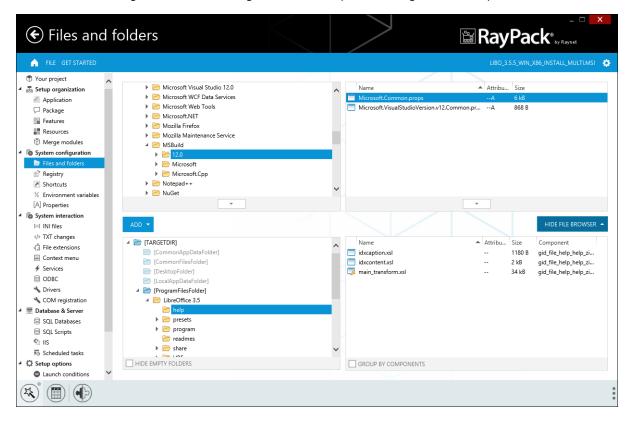


PackDesigner

PackDesigner enables packagers to create, manipulate, and validate software packages. In the scope of release 1.0 SP1 the project editor version for Windows target operating systems is introduced.

Visual Designer

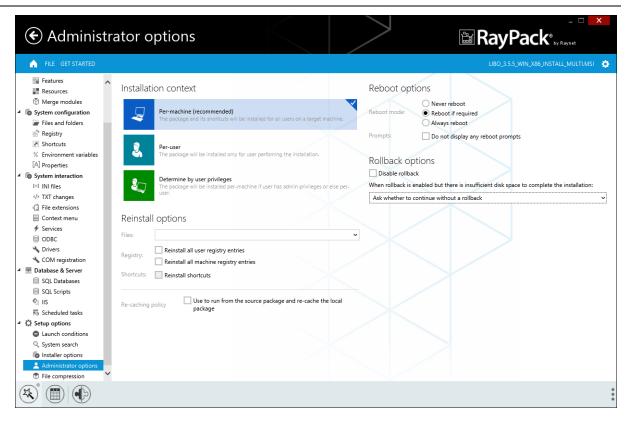
Inspired by the many years of experience in the packaging business, Raynet has developed an innovative editor concept, which travels far beyond plain value manipulation functionalities (Visual Designer). Its new user interface provides a variety of improvements to ease the access, the overview, and the handling of data. Visual Designer, embedded into RayPack's flat Windows 8 inspired style, uses a whole set of unified presentation and control elements to support users with an elaborate, responsive, and comfortable interface. Preparing package properties for building MSI or MST files becomes a convenient click-through experience. The Visual Designer delivers an astonishing intuitive mixture of guided wizards, dynamic dialogues and best practice instructions.



Whenever users create or edit an MSI based RayPack project, the Visual Designer is their default working environment.





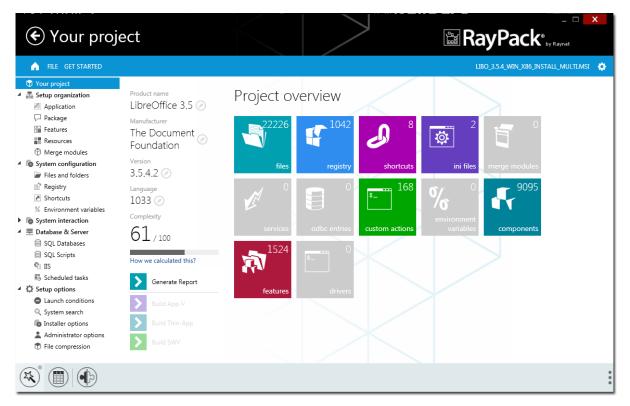




Your Project

Package Content Overview

The central package view shown in the screenshot below provides an overview on the current package contents. Clicking on the tiles directly opens the editor view for the specific content types: files, registry, shortcuts and the like. Use the additional activity buttons to validate your packaging project and build deployable software packages from it.



Generate Report

Since packaging projects usually include several parties, such as the requesting customer, packagers, and quality testers, an easily transferable report on the current package contents is quite useful for the project communication and documentation. Therefore, PackDesigner includes a package reporting functionality to generate PDF, Word, and HTML reports on the fly. To get an initial incoming resources report as well as an outgoing result report is a matter of seconds.



Package Report by RayPack

general info	rmation
Name:	LibreOffice 3.5
Version:	3.5.4.2
Manufacturer:	The Document Foundation
Product code:	{EF790F1C-CB0C-4B95-8C54-60783F3B6661}
Document date:	3/11/2014
Project type:	MSI
Complexity:	61 / 100
Comments:	LibreOffice 3.5 (en-US,af,ar,as,ast,be,bg,bn,bo,br,brx,bs,ca,ca-

package content

22226 files	1042 registry	8 shortcuts	2 ini files	0 merge modules	0 services
O odbc entries	168 custom actions	() environment variables	9095 components	1524 features	() drīvers

name	parent name	description	level
LibreOffice 3.5		LibreOffice 3.5	20
Program Module	LibreOffice Writer	The application LibreOffice Writer	20
gid_Module_Brand_Prg_ Wrt	LibreOffice Writer	gid_Module_Brand_Prg_Wrt	20
gid_Module_Prg_Wrt_M SO_Reg	LibreOffice Writer	gid_Module_Prg_Wrt_MSO_Reg	20
gid_Module_Root_Doc m	gid_Module_Prg_Wrt_ MSO_Reg	gid_Module_Root_Docm	20
gid_Module_Root_Dot m	gid_Module_Prg_Wrt_ MSO_Reg	gid_Module_Root_Dotm	20
gid_Module_Root_Docx	gid_Module_Prg_Wrt_ MSO_Reg	gid_Module_Root_Docx	20
gid_Module_Root_Dotx	gid_Module_Prg_Wrt_ MSO_Reg	gid_Module_Root_Dotx	20
gid_Module_Root_Rtf	gid_Module_Prg_Wrt_ MSO_Reg	gid_Module_Root_Rtf	20
gid_Module_Root_Doc	gid_Module_Prg_Wrt_ MSO_Reg	gid_Module_Root_Doc	20
gid_Module_Root_Dot gid_Module_Prg_ MSO_Reg		gid_Module_Root_Dot	20
gid_Module_Brand_Prg_ Calc	LibreOffice Calc	gid_Module_Brand_Prg_Calc	20
Program Module	LibreOffice Calc	The application LibreOffice Calc	20
Add-in	Program Module	Add-ins are additional programs that make new functions available in LibreOffice Calc.	20
gid_Module_Prg_Calc_ MSO_Reg	LibreOffice Calc	gid_Module_Prg_Calc_MSO_Reg	20
gid_Module_Root_XItm	gid_Module_Prg_Calc_ MSO_Reg	gid_Module_Root_XItm	20
gid_Module_Root_XIsb	gid_Module_Prg_Calc_ MSO_Reg	gid_Module_Root_XIsb	20
gid_Module_Root_XIsm	gid_Module_Prg_Calc_ MSO_Reg	gid_Module_Root_XIsm	20
gid_Module_Root_Xlsx	gid_Module_Prg_Calc_ MSO_Reg	gid_Module_Root_XIsx	20
gid_Module_Root_XIs	gid_Module_Prg_Calc_ MSO_Reg	gid_Module_Root_XIs	20
gid_Module_Root_XIt	gid_Module_Prg_Calc_ MSO_Reg	gid_Module_Root_XIt	20
gid_Module_Root_Xitx	gid_Module_Prg_Calc_ MSO_Reg	gid_Module_Root_Xltx	20
gid_Module_Brand_Prg_ Draw	LibreOffice Draw	gid_Module_Brand_Prg_Draw	20
Program Module	LibreOffice Draw	The application LibreOffice Draw	20
gid_Module_Brand_Prg_ Impress	LibreOffice Impress	gid_Module_Brand_Prg_Impress	20
Program Module	LibreOffice Impress	The application LibreOffice Impress	20
gid_Module_Prg_Impres	LibreOffice Impress	gid_Module_Prg_Impress_MSO_Reg	20

Package Complexity Indexing

The complexity index value is calculated based upon an extensive package property analysis. Working on packages with high complexity usually takes more time and requires more precise fine-tuning than working on those with a lower index value. As soon as a packaging project is defined, the complexity reflects changes in real-time, allowing packagers not only to make estimations on the specific workload, but actually to monitor how their treatments take effect.

1 of 58

Manipulate project contents

The PackDesigner user interface is equipped with elaborate views to manipulate essential package properties, such as files and folders, registry values, and shortcuts.

In order to provide convenient management controls for advanced packaging requirements, PackDesigner additionally offers a broad set of specialized views. From the Project Content area users are able to manipulate package contents such as Properties, Environment variables, INI files, and text manipulations.

The screenshot below shows the TXT changes view, which enables the implementation of complex search and replace commands, embedded into a highly intuitive editor dialog composition.



• TXT changes		
A FILE GET STARTED		LIBO_3.5.5_WIN_X86_INSTALL_MULTI.MSI 🔅
Over project Application Application Package Greatures	TEXT REPLACEMENT TextReplacement Find value type: Text	⊘
Resources	Find what: r	
 System configuration Files and folders Registry 	Replace with: [INSTALLDIR]	
Registry Shortcuts K Environment variables	FILES AND FOLDERS RUN TYPE Run type: Install	
[A] Properties	Match type: Normal	~
UI INI files	Component: 🕲 gid_file_res_sdbt_libreoffice3_5_program	i_resource_ts v -
ODBC Convers COM registration		
▲ ZOM registration ■ Evaluates & Server SQL Databases SQL Scripts ① IIS Scheduled tasks ◇ Scheduled tasks ◆ Launch conditions ◆		
🕸 🗊 🚯		• •

Working with the Visual Designer interface relieves users from having to fully understand the complex dependencies of packaging methods. By following the clear interface guidance, even advanced tasks become feasible with minimal effort. PackDesigner coordinates all the required database operations in the background, in order to allow users to stay focused on the intended packaging result. Unless they explicitly want to, users do not have to dive into knowledge regarding necessary detail work performed on the package resources.

Working with File Formats

At present, users can manipulate MSI, MST and RPP (RayPack Packaging Project) files in PackDesigner. RayPack project files in general (including PackDesigner RPP and *PackRecorder RCP files*) are XML based, and therefore easy to manage by version control systems.

Besides editing an MSI or RPP file manually, it is also possible to add one or more transform (MST) files to an opened project. Users hit the Apply Transform button from the action bar at the bottom of the application window to select the MST from the file system. The newly added, removed or changed content is highlighted within the Advanced View Table Editor.



← Tables						net
FILE GET STARTED					LIBO_3.5.5_WIN_X86_INSTALL_M	IULTI.MSI
NEW TABLE VALIDA	TE 👻	ADD ROW				
ActionText	70 🔨	Action	Туре	Source	Target	
AdminExecuteSequence	20	CheckPatchList	65	shixtmsidli	CheckPatchList	,
Administecutesequence	20	CheckVersions	321	sn_toolsdll	CheckVersions	
AdminUlSequence	11	CompleteInstallPath	321	shixtmsidli	CompleteInstallPath	
AdvtExecuteSequence	16	DotNetCheck	321	shlxtmsidll	DotNetCheck	
Advickecutesequence	16	Instooofiltmsidll	65	instooofiltmsidll	RestartIndexingService	
AppSearch	4	MigrateInstallPath	321	shixtmsidli	MigrateInstallPath	
Binary	27	Regallmsdocdll	65	reg4allmsdocdll	FindRegisteredExtensions	
- bindry	21	RemovePrgFolder	1	shlxtmsidll	RemovePrgFolder	
CheckBox	3	RenamePrgFolder	1	shlxtmsidll	RenamePrgFolder	
Component	0000	Restoreregallmsdocdll	65	reg4allmsdocdll	RestoreRegAlIMSDoc	
Component	9096	SelectLanguage	321	sellangmsidll	SelectLanguage	
Control	499	Shellextensionsdll3	65	shlxtmsidll	InstallStartmenuFolderIcon	
ControlCondition	70	Shellextensionsdll4	65	shlxtmsidll	DeinstallStartmenuFolderIcon	
ControlCondition	76	Shellextensionsdll5	321	shlxtmsidll	SetProductInstallMode	
ControlEvent	154	Shellextensionsdll6	65	shlxtmsidll	RebuildShellIconCache	
CreateFolder	400	Shellextensionsdll7	1345	shlxtmsidll	ExecutePostUninstallScript	
Createroider	122	SxsUninstalICA	1	SxsUninstalICA	CustomAction_SxsMsmCleanup	
CustomAction	165	A WindowsFolder.30729.6161.policy_9_0_Micros	51	WindowsFolder.30729.6161.policy_9_0_Micros	[WindowsFolder]	
		SxsInstalICA	1	SxsUninstalICA	CustomAction_SxsMsmInstall	
🥅 Dialog	33	WindowsFolder.30729.6161.policy_9_0_Micros	51	WindowsFolder.30729.6161.policy_9_0_Micros	[WindowsFolder]	
Directory	2327	WindowsFolder.30729.6161.Microsoft_VC90_C	51	WindowsFolder.30729.6161.Microsoft_VC90_C	[WindowsFolder]	
	~	WindowsFolder.30729.6161.Microsoft_VC90_C	51	WindowsFolder.30729.6161.Microsoft_VC90_C	[WindowsFolder]	
Error	130	🙈 RPTextReplacements	25601	RPTextReplacements	RPTextReplacements	
HIDE EMPTY TABLES		🙈 RPTextReplacementsData	1	RPTextReplacements	RPTextReplacementsData	
TABLES FEATURES CO	MPONENTS	CUSTOM ACTIONS SEQUENCING USER INTER	RFACE			

RayPack's PackDesigner is able to save projects as MSI, MST, or RPP file, and also to generate App-V package resources. To do so, use the FILE button from the menu ribbon, select the Save As option, browse to the target directory, enter a file name, and select the desired file type. The set of available target package formats depends on the licensed edition of a RayPack instance.



Advanced View

For all users who prefer direct database manipulation, there is a built in Advanced View which includes the Table Editor. Utilizing their knowledge about MSI structures, these packagers will love the straight access and pure editing methods on package resource tables within this view.

FILE GET STARTED					LIBO_3.5.5_WIN_X86_INSTALL	_MULTI.MSI
NEW TABLE VALIDATE -	ADD ROW					
Validation 469	Action	Туре	Source		Target	
	CheckPatchList	65	shlxtmsidll	l .	CheckPatchList	
ActionText 70	CheckVersions	321	sn_toolsdll	1	CheckVersions	
AdminExecuteSequence 20	CompleteInstallPath	321	shlxtmsidll	1	CompleteInstallPath	
	DotNetCheck	321	shlxtmsidll	1	DotNetCheck	
AdminUlSequence 11	Instooofiltmsidll	65 🗸	instooofilti	msidll	RestartIndexingService	
AdvtExecuteSequence 16	MigrateInstallPath	Scheduling: Always	0		MigrateInstallPath	
AppSearch 4	Regallmsdocdll	Scheduling: FirstSeq		ocdll	FindRegisteredExtensions	
AppSearch 4	RemovePrgFolder	Scheduling: OncePer			RemovePrgFolder	
Binary 27	RenamePrgFolder	Scheduling: ClientRe			RenamePrgFolder	
CheckBox 3	Restoreregallmsdocdll			ocdll	RestoreRegAllMSDoc	
CheckBox 3	SelectLanguage	DLL (Binary table key		111	SelectLanguage	
Component 9097	Shellextensionsdll3	DLL (File table key, D	DLL (17		InstallStartmenuFolderIcon	
Control 499	Shellextensionsdll4	EXE (Binary table key	v. cor 2		DeinstallStartmenuFolderlcon	
Control 499	Shellextensionsdll5	EXE (File table key, c			SetProductInstallMode	
ControlCondition 76	Shellextensionsdll6	EXE (Property table I			RebuildShellIconCache	
ControlEvent 154	Shellextensionsdll7	EXE (Working direct	ory, 34		ExecutePostUninstallScript	
ControlEvent 154	SxsUninstalICA			ICA	CustomAction_SxsMsmCleanup	
CreateFolder 123	WindowsFolder.30729.6161.policy_9_0_Microsof	VBS (Binary table ke		lder.30729.6161.policy_9_0_Microsof	[WindowsFolder]	
CustomAction 165	SxsInstalICA	VBS (File table key, f		ICA	CustomAction_SxsMsmInstall	
CostomAction 165	WindowsFolder.30729.6161.policy_9_0_Microsof	VBS (Property table		lder.30729.6161.policy_9_0_Microsof	[WindowsFolder]	
Dialog 33	WindowsFolder.30729.6161.Microsoft_VC90_CR	VBS (null, script text)) 38	lder.30729.6161.Microsoft_VC90_CRT	[WindowsFolder]	
Directory and	WindowsFolder.30729.6161.Microsoft_VC90_CR	Set property (Proper	rtyt 51 🗸	lder.30729.6161.Microsoft_VC90_CRT	[WindowsFolder]	
Directory 2327	希 RPPermissionsObjectData	Set directory (Direct		ons	RPPermissionsObjectData	
	希 RPPermissionsObjectInstall			ons	RPPermissionsObjectInstall	
THIDE EMPTY TABLES		more information				
HIDE EMPTY TABLES	RepermissionsObjectinstall	more information			RPPermissionsObjectinstail	

The table editor is a very good example for the functional vision behind the user interface of RayPack: Provide a clean-cut set of intuitive core features and augment them with an extra portion of user-friendliness. The screenshot above shows how Raynet followed this in the table editor interface: Attributes columns within tables are equipped with an additional dialog, assisting users with selectable values to build numerical Attribute values from. Users can type the codes they have used for years and years manually, but additional convenience is added to allow quick and easy task fulfillment beyond that.



Features & Components

The Advanced View also allows full management of package features and components, including conditions, visibility, and options such as advertised or remote installations.

← Features			BayPack [®] by Rayret
▲ FILE GET STARTED			LIBO_3.5.5_WIN_X86_INSTALL_MULTI.MSI 🔅
NEW * ***********************************	FEATURE GM_ROOT Display name: LibreOffice 3.5 Description: M This feature is requ Appearance: M This feature is visible This feature is visible CONDITIONS ADVANCED Destination: [ProgramFiles] Advertised: Disallow adve Remote installation: Favor local	e nded Folder]LibreOffice 3.5\	
TABLES FEATURES COMPONENTS CUSTOM ACTIONS SEQUE	NCING USER INTERFACE		

It goes without saying that Raynet has integrated some additional helper tools, such as the condition builder shown below, which make using RayPack as care free as possible, and improve the overall user experience.





CONDITION BUILDER		/	- - X
PROPERTIES - OPERATORS -	SNIPPETS -		
((VersionNT < 600) or Version9X) AND (()	Select a snippet		^
	32-bit operating system?	^	
	64-bit operating system? Current user has admin privilleges? Windows XP or newer?		
	Windows XP or newer? Windows Vista or newer? Windows 7 or newer?		
	Windows 8 or newer? Service Pack 1 installed?		
	Feature is absent? Feature is installed?		
	Feature is being installed? Feature is being uninstalled?		
	Component is absent? Component is being installed?	~	~
			OK CANCEL

Assigning components to features is done as easy as 1-2-3, either by a right-click on a component within the list view of items on the left hand side of the Features or Components view, or by selecting a component and starting the assignment from the details pane on the right hand side of the views.

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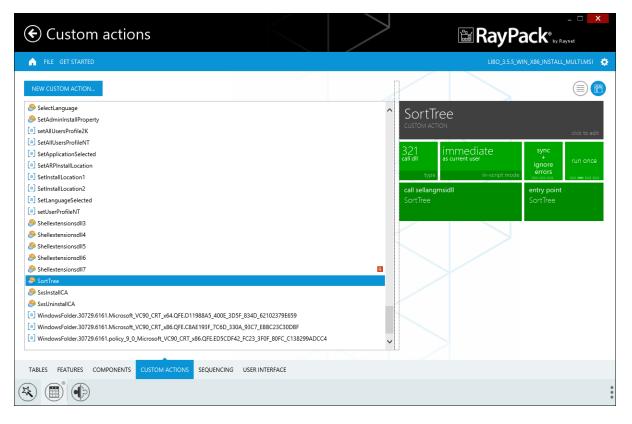
 Components 		yPack [®] by Raynet
FILE GET STARTED	LIBC	_3.5.5_WIN_X86_INSTALL_MULTI.MSI 🔅
NEW registry.g.m.root.reg.dot.libreoffice35 registry.g.m.root.reg.dot.libreoffice35 registry.g.m.root.reg.pot.libreoffice35 registry.g.m.root.reg.pot.libreoffice35 registry.g.m.root.reg.pot.libreoffice35 registry.g.m.root.reg.ppt.libreoffice35 registry.g.m.root.reg.ppt.libreoffice35 registry.g.m.root.reg.ppt.libreoffice35 registry.g.m.root.reg.ppt.libreoffice35 registry.g.m.root.reg.ppt.libreoffice35 registry.g.m.root.reg.ytt.libreoffice35 registry.g.m.root.reg.y	COMPONENT uplevel.30729.6161.policy_9_0_Microsoft_VC90_CFF condition: (VersionNT >= 600)) AND (VC_REDIST=1) AND VersionNT64) Reevaluate on repair PROPERTIES FLATURES FILES REGISTRY Lets you select additional features to which the component may belong Current assignments This component is currently assigned to 1 features. Click the feature name to go to the feature or right click to remo LibreOffice	edit in condition builder
TABLES FEATURES COMPONENTS CUSTOM ACTIONS	SEQUENCING USER INTERFACE	:



Custom Actions

Integrating custom actions into the installer sequences offers packagers the flexibility to enhance package appliance procedures with their very own commands. The custom action management view within RayPack is designed to gain a maximum of convenience and clarity for the key tasks regarding such actions: the creation of new ones, the organization of existing ones, and their straight integration into the installation sequences.

To accomplish those requirements, the Custom Actions view is divided into a list of already created objects, which on click are displayed within the details pane the right-hand side of the view.

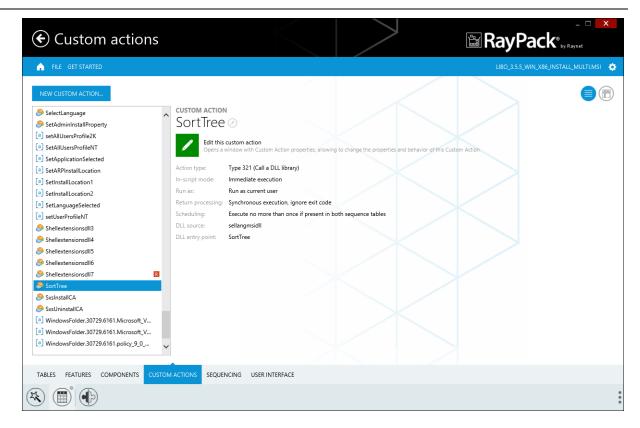




Users have the choice to switch the Custom Action view mode according to their individual preferences. By using the view switch controls on the upper right corner of the details pane the classic column based and the innovative tile based view mode are available. The screenshot above displays the tile view, while the one below shows the classic column based mode.

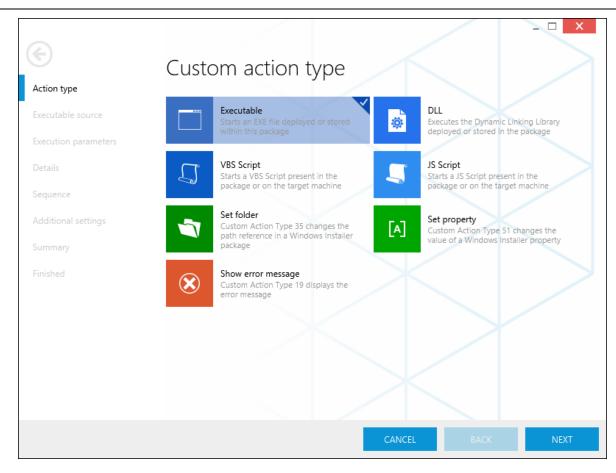
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Since the properties for custom actions have to be defined exact and complete to achieve the desired functionality for the installation routine, RayPack supports packagers with a step-by-step wizard for their creation.





Once a custom action is available within the project, it can easily be integrated into the installer sequences. To do so, users switch to the sequencing view.



Sequencing

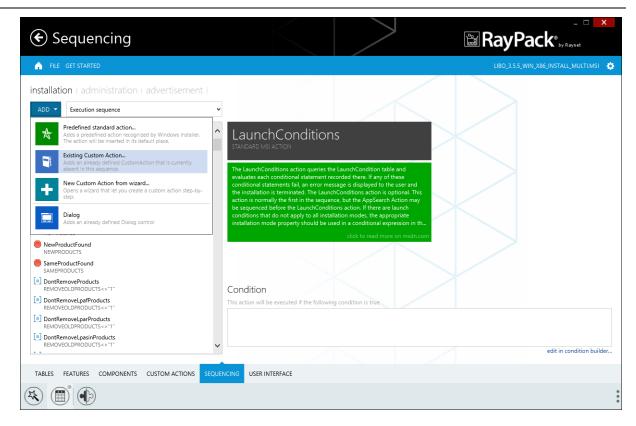
MSI based installer sequences are the core of the activity path that is followed throughout the package appliance procedure. It is of essential importance to manage the different types of sequences in a flawless and well structured manner. RayPack contains an elaborated view to allow users to switch between the installation, administration and advertisement sequences, and at the same time to easily navigate through the steps of each single sequence type.

€ Sequencing		\geq	BayPack [®] by Raynet
🔒 FILE GET STARTED			LIBO_3.5.5_WIN_X86_INSTALL_MULTI.MSI 🔅
ADD Execution sequence	CheckVersions	click to edit	
LaunchConditions Shellextensionsdll5 Not REMOVE= "ALL" And Not PATCH FindRelatedProducts NOT ISSTUPPRIVEN CheckInstallDirectory	321 immediate as current user type in-script mode	sync + run once errors 	
CheckInstalled CheckVersions NOT installed NetWorkDrought Not weak Not weak Not weak NetWorkDrought NetWorkDro	call sn_toolsdll CheckVersions	entry point CheckVersions	
SameProductFound SAMEPRODUCTS DontRemoveProducts REMOVEOLDPRODUCTS<>^'1 DontRemoveLpafProducts REMOVEOLDPRODUCTS<>^'1	Condition This action will be executed if the following con	dition is true	
DontRemoveLparProducts REMOVEOLDPRODUCTS<>*" DontRemoveLpasinProducts REMOVEOLDPRODUCTS<>*"	NOT Installed		edit in condition builder
TABLES FEATURES COMPONENTS CUSTOM ACTIONS SEQU	ENCING USER INTERFACE		

Standard actions and custom actions are displayed in their actual appliance order within the list box on the lefthand side of the view. Selecting one of the actions displays its details in the info pane on the right-hand side. Adding a new step to a sequnce is initiated by a click on the NEW button. The options menu allows to chose between the integration of an additional, not yet sequenced standard or custom action, of a new custom action, or a new dialog control.







Newly added steps are always positioned at the beginning of the currently visible sequence. To change that position, simply use drag & drop within the list box on the left hand side, or the context menu that appears when the user performs a right-click on a sequences action item.

Since some basic sequencing-rules have to be followed in order to guarantee successful package installation, RayPack offers descriptions for all standard actions, which support the user to ensure essential conditions, for example the execution of InstallInitialize before InstallFinalize.



Package Validation

Testing packages for internal quality is paramount for professional software packaging. PackDesigner includes a variety of test sets, which support validation against ICE (Internal Consistency Evaluators) and Windows Logo compliance. These features are the perfect first line detection system, designed as a preflight before the built package goes out to deeper compatibility and conflict testing. Following the standard Windows validation rule-sets, RayPack ensures full operating system standard compliance for supported versions.

🗲 Tables					,ªa 800	RayPack [®] by Raynet
🔒 FILE GET STARTED						ORCA.MSI
NEW TABLE VALIE	DATE 👻	ADD ROW				
Ualidation	459 🔨	🔎 Component	ComponentId	Directory_	Attributes Condition	KeyPath T
ActionText	70	OrcaData.406D93CE_00 OrcaNT.406D93CE_00E				OrcaData_f1.406D93CE_00E9 C OrcaNT_f2.406D93CE_00E9 0
AdminExecuteSequence	e 12	ICECub	{EAB27DFE-90C6-11D2-88A	,	0	CUBFile 0
AdminUISequence	12	LogoCub XPLogoCub	{D7ADC15E-64F4-4A04-B4E {6571AA45-75DA-483C-95F		0	LogoFile O XPLogoFile O
AdvtExecuteSequence	17	Marrie Mart Cut	ALIDATION RESULTS		-	X
BBControl		OrcaHelp EvalCom2.07C0				O DA1.BD M
Billboard	0	MergeMod.FD1	iced column print export_			sequence 🔎 8240_37 IV
📰 Binary	12		Source Table	Keys Column	Description	
CheckBox			ICE26 InstallExecute <mark>Sequence</mark>			quired in the InstallExecute <mark>Se</mark>
Class	3		ICE26 InstallExecuteSequence			in the InstallExecute <mark>Sequenc</mark> uired in the InstallExecute <mark>Seq</mark>
ComboBox		O 1	ICE26 InstallExecuteSequence			ired in the InstallExecuteSeq
Component	9		ICE82 InstallExecute <mark>Sequence</mark> ICE82 InstallUI <mark>Sequence</mark>	CommonFilesFolder Sequenc		table does not contain the s der.FD153240 37EC 11D2 8
Control	277		ICE82 AdminExecuteSequence			der.FD153240_37EC_11D2_8
ControlCondition	5		ICE82 AdminUI <mark>Sequence</mark>	CommonFilesFolder Sequenc		der.FD153240_37EC_11D2_8
ControlEvent		A 1	ICE82 AdvtExecute <mark>Sequence</mark>	CommonFilesFolder Sequenc	I his action CommonFilesFold	der.FD153240_37EC_11D2_8
	128					
CustomAction	4 ~					
HIDE EMPTY TABLES		<				>
						~
TABLES FEATURES C	OMPONENTS	CUSTOM ACTION				POP-IN CLOSE

Working with several monitors is well supported by the convenient Pop-Out and Pop-In switch for the validation result dialog. Simply drag the popped out dialog to a different screen and have direct access to the result overview and the Table Editor at the same time. Clicking on a row within the validation dialog focuses the Table Editor on the triggering item within the project data.



PackRecorder

The Capture Wizard is RayPack's instrument for repackaging legacy setups. It uses snapshot technology to create Delta files, which are the basis for further steps of package project generation and property manipulation.

$\langle \boldsymbol{\leftarrow} \rangle$	Options			
Project Settings				
Options	Before pressing "Next" ensure that there are no applications in the background. You can make any changes to the capture settings by choosing "Options" button. Once you click "Next" the first snapshot will be taken.			
First Snapshot				
Install Application	Exclusions configuration directory:			
Configure Application	C:\Users\Tester\AppData\Roaming\RayPack\Filters BROWSE			
Second Snapshot	RayPack will look for exclusion configuration data in the above folder			
Finished	Available exclusions Active exclusions			
	All Windows OS RayPack - All OS			
	ADD EDIT RENAME DELETE			
	Scan settings			
	Scanned local drives Scanned registry hives			
	A: HKLM			
	с:			
	D: HKUDEFAULT			
	Z:			
	Advanced scanning Select which of the below areas will be scanned in addition to a snapshot comparison Permission changes (files and registry)			
	 Permission changes (nes and registry) Service changes Device changes 			
	CANCEL BACK NEXT			

To capture a setup, RayPack's PackRecorder is executed on a clean machine, which is like a blank slate for



software usage caused files, registry keys, and the like. Nonetheless, offering a configurable exclusion list appliance helps to erase any potentially irritating footprints that might have been brought on to the system.

Following the steps of the capture wizard, an initial snapshot saves the system state before the setup sequence has been executed. After the setup has ended, a second snapshot is taken, which is used to calculate the system state differences caused by the installation (the so called Delta file).

😧 FileZilla	Recording.rcp		■ RayPac	_ 🗆 🗙
 ▶ FILE GET STARTED ♥ Package ☞ Files and folders ➡ Registry ≥ Shortcuts 	shortcuts		SELECTED ITEM	LA RECORDING.RCP 🔅
 Permissions Files and folders Registry System Resources Services System variables Build 	print export Name Target IZ FileZilla.lnk C:\Program Uninstall.lnk C:\Program	Working directory n Files (x86)\FileZilla\fil C\Program Files (x86)\f n Files (x86)\FileZilla\fil C\Program Files (x86)\f n Files (x86)\FileZilla\fil C\Program Files (x86)\f	File File File File	_
(°¢)		Cancel	OK	6 6 8

Opening this RCP (RayPack Capture Project) file with the attached editor interface allows the manipulation of all native package properties which are required to build clean MSI, MST and App-V files.

Release Notes RayPack 1.0 SP1



€ Settings		RayPack [®] by Raynet	x
🔥 FILE GET STARTED		FILEZILLA RECORDING.RCP	۰
about general Capture mode Select the options that are available during the execution of the exe	Windows Installer Template C:\Users\Tester\AppData\Roaming\RayPack\Pac → File options File compression Check for .NET assemblies: Use MSI HashFile Table for PE files: Use merge modules: → User specific options	scan msi mst app-v ckageTemplates\Windows Application 32bit.msi BROWSE MSI ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	
		OK CANC	EL

PackRecorder uses different settings per customer or project. This includes scanned folders and drives, exclusion lists, and specific feature lists. Defining pointed exclusion list entries is assisted by RayPack's flexible regular expression editor, which is combined with a high-speed resolver engine. It is recommended to store profiles on shared file system locations, in order to be able to use identical profiles for packaging projects within the same customer or project context.



System Requirements

Hardware Requirements for Devices Running RayPack

This section lists the minimal hardware requirements for running RayPack.

Minimal

- Screen resolution: 1024 x 768 pixels
- Color settings: 16 bit
- RAM: 2GB
- Disk space: 10GB

Recommended

- Screen resolution: 1280 x 1024 pixels
- Color settings: 32 bit
- RAM: 4GB or higher
- Disk space: 100GB or more

Mote: The in: additio

The installation of the RayPack framework itself requires about 100MB of disk space. The amount of additional space needed depends on the volume of your packaging material and the location of the data store.



Supported OS for RayPack Framework Installations

The following operating systems are supported for the installation and running of RayPack.

- Windows 8.1
- Windows 8.1 x64
- Windows 8
- Windows 8 x64
- Windows 7
- Windows 7 x64
- Windows Vista
- Windows Vista x64
- Windows XP Professional SP3
- Windows XP Professional SP3 x64

- Windows 2012 R2 Server
- Windows 2012 Server
- Windows 2008 R2 Server
- Windows 2008 Server SP1-SP2
- Windows 2008 Server x64 SP1-SP2
- Windows 2003 R2 Server
- Windows 2003 R2 Server x64
- Windows 2003 Server SP2
- Windows 2003 Server x64 SP2



Note:

Packages generated with RayPack have their own, individual set of target OS. The list above is not designed to display which target OS are reachable by RayPack packages.

Prerequisite Software

• .NET 4.0 Client & Full for Windows XP up to Windows 7 systems (both 32bit and 64bit)

As a packaging best practice, it is recommended to install available .NET versions onto the base instead of including it within a package.



Known Issues

Since RayPack is introduced as a brand new product, there are some features which are implemented at a basic level, but need fine-tuning and polishing to fully meet Raynet's high quality standards. The following list of Known Issues is provided to inform about upcoming addons:

RayPack Core

Help & info

- Not all help links to external websites are working correctly
- The In-App Help is not available by context sensitive links yet

Settings

• Some advanced PackDesigner configuration settings are not available for manual edition by user yet

App-V

- The App-V / SFT Editor interface for direct package manipulation is under construction
- Generating App-V v4 is not available at present

SetupTracker

On some pre-Windows 8 systems SetupTracker may work unstable under certain circumstances.

PackDesigner

The PackDesigner interface already contains preview sections regarding upcoming functionality. The following views are not implemented within RayPack 1.0 SP1:

- Merge Modules
- COM Registration



- IIS
- System Search
- User interface

Additionally, there are some inactive buttons included to indicate upcoming features, e.g. the Build buttons for virtual package formats, or filtering objects by feature.

Files & Folders

- Advanced drag, drop, and clipboard operations will be added
- The performance of imports including large amounts of files or folders will be improved
- Filtering by feature is missing

Registry

- Advanced drag, drop, and clipboard operations will be added
- Moving keys or values from one component to another is not available yet
- The performance of imports including large amounts of registry objects will be improved
- Importing and exporting REG files is missing

Shortcuts

• Conversion from advertised to non-advertised shortcuts will be added

INI Files

• Manually creating new INI files is under construction

SQL Databases & Scripts

• Importing SQL scripts from file resources is not fully implemented

Setup Options



- Launch Conditions: Predefined launch conditions and advanced condition management are missing
- Installer Options: The status of the elevation option is not reflected within the MSI database
- File Compression: Options to generate MSI files with uncompressed sources or individually partitioned CAB files are under construction

Table Editor

- Advanced database management features, such as creating custom tables, editing the schema of existing tables, or dropping tables are not implemented yet
- The performance of search requests on large databases / tables will be improved



Additional Information

Visit *www.raypack.net* for further information regarding the product and current community incentives. It's also recommended taking a look at additional resources available at the Knowledge Base for Raynet products: *http://knowledgebase.raypack.net*.

Raynet is looking forward to receiving your feedback from your RayPack experience. Please contact your Raynet service partner or write an e-mail to *beta@raypack.net* to add your ideas or requirements to the RayPack development roadmap!

Our Raynet support team gladly assists you on any question or issue you encounter regarding RayPack. Feel free to sign in and open incidents via our Raynet support panel, or by simply sending an email to *support@raynet.de* if you are an already registered Raynet customer.





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