RayPack®

Release Notes
RayPack 1.4

rayNET

RayPack
Software Packaging

Release Notes RayPack

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Any type of software or data file can be packaged for software management using packaging tools from Raynet or those publicly purchasable in the market. The resulting package is referred to as a Raynet package. Copyright for any third party software and/or data described in a Raynet package remains the property of the relevant software vendor and/or developer. Raynet GmbH does not accept any liability arising from the distribution and/or use of third party software and/or data described in Raynet packages. Please refer to your Raynet license agreement for complete warranty and liability information.

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Introduction

RayPack 1.4 is the next iteration of Raynet's 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 a stand-alone product as well as having the ability to be integrated into the RaySuite solution powered by RayFlow.

Enterprise Application Lifecycle Management

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 1.4 release, 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, prepare MSP patches and to create App-V, ThinApp and SWV packages.

Development Roadmap

Upcoming releases will introduce additional new components and features, resulting in boosted productivity, time and resource saving, and improving the overall product experience. The development of RayPack is customer-oriented - so should you have any ideas or suggestions of how you see your ideal packaging tool, simply let us know and watch the product growing according to your business needs. Our sales team will be happy to assist you!
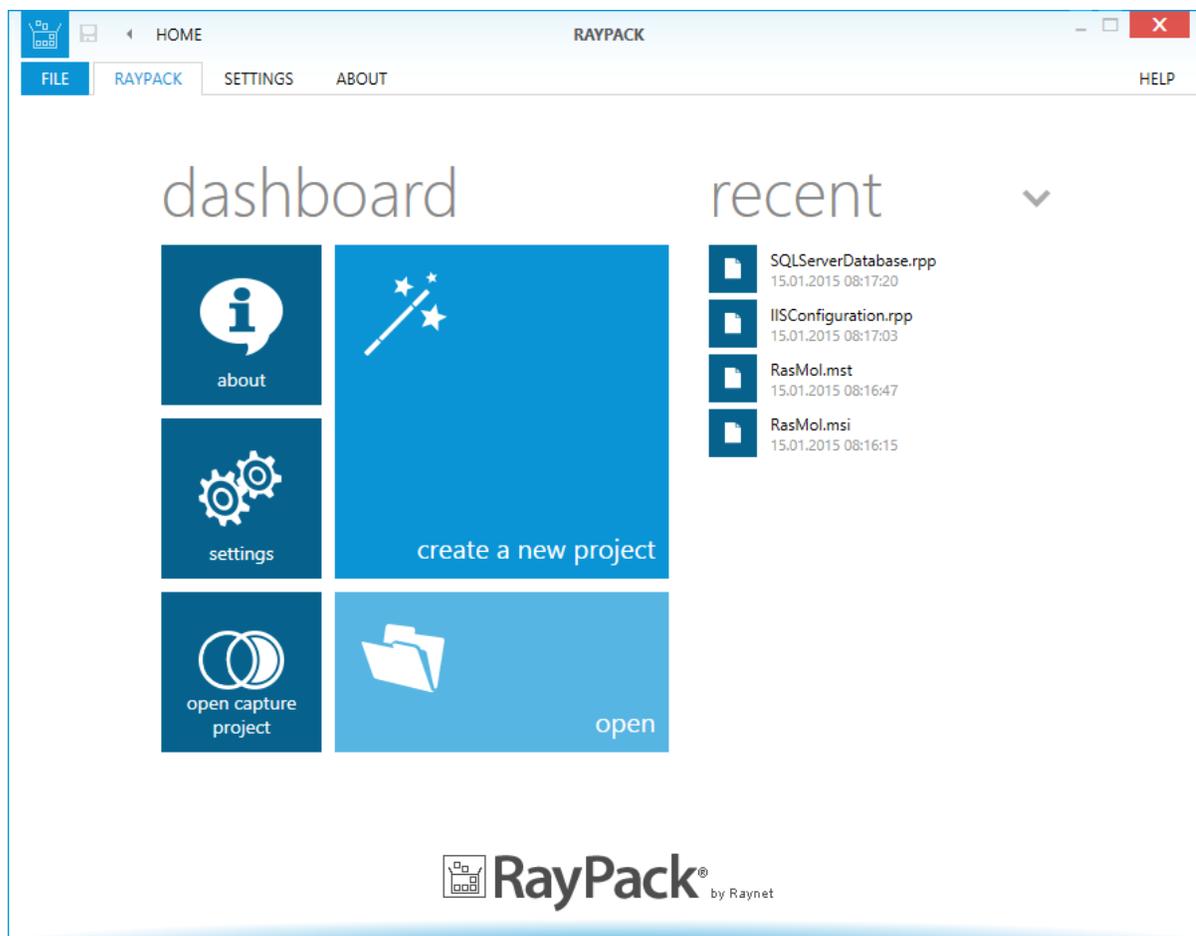
Please make sure to check our website http://raynet.de to stay up to date with our next RaySuite product and service releases, announcements, special offers, and product trainings.
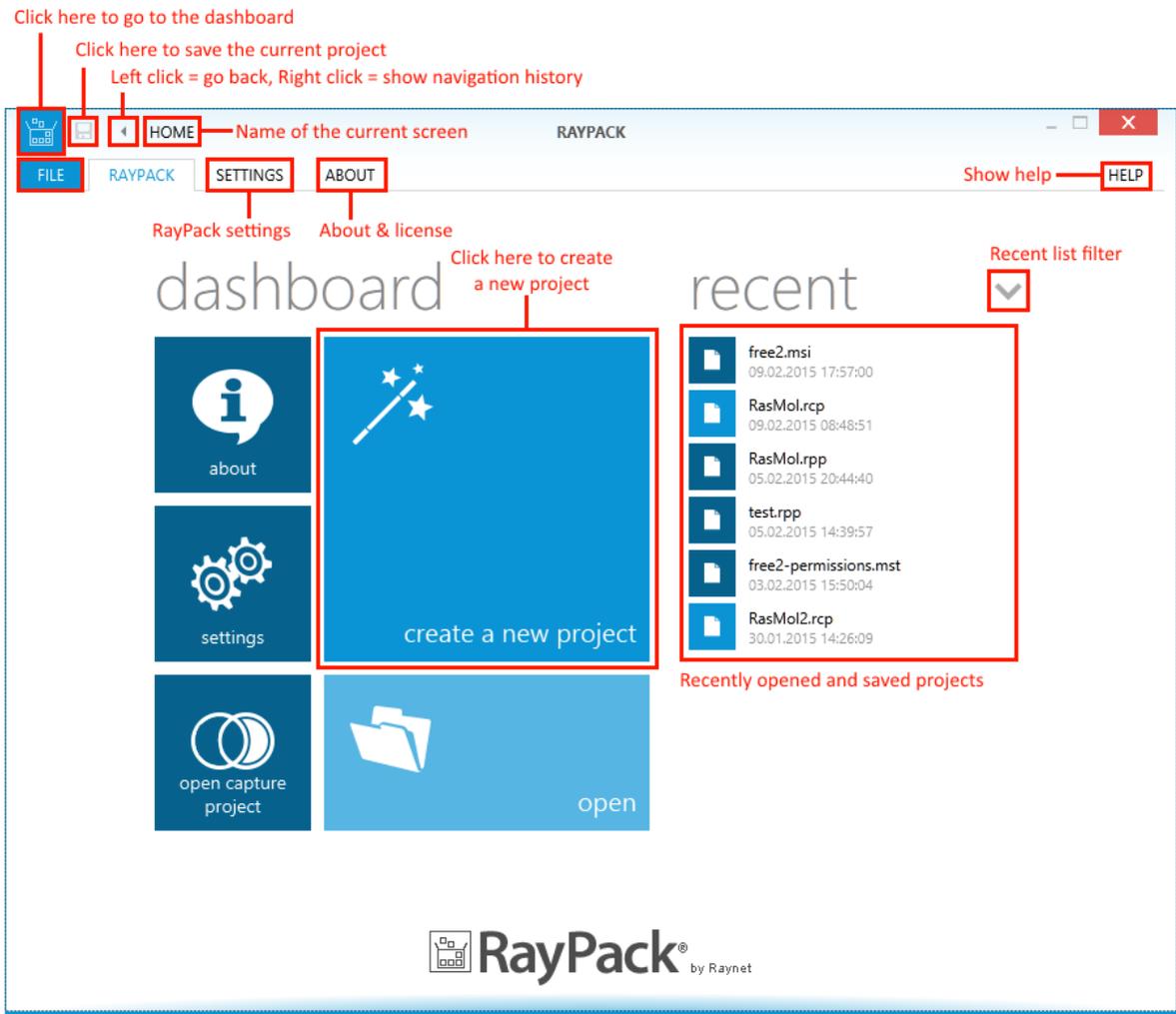
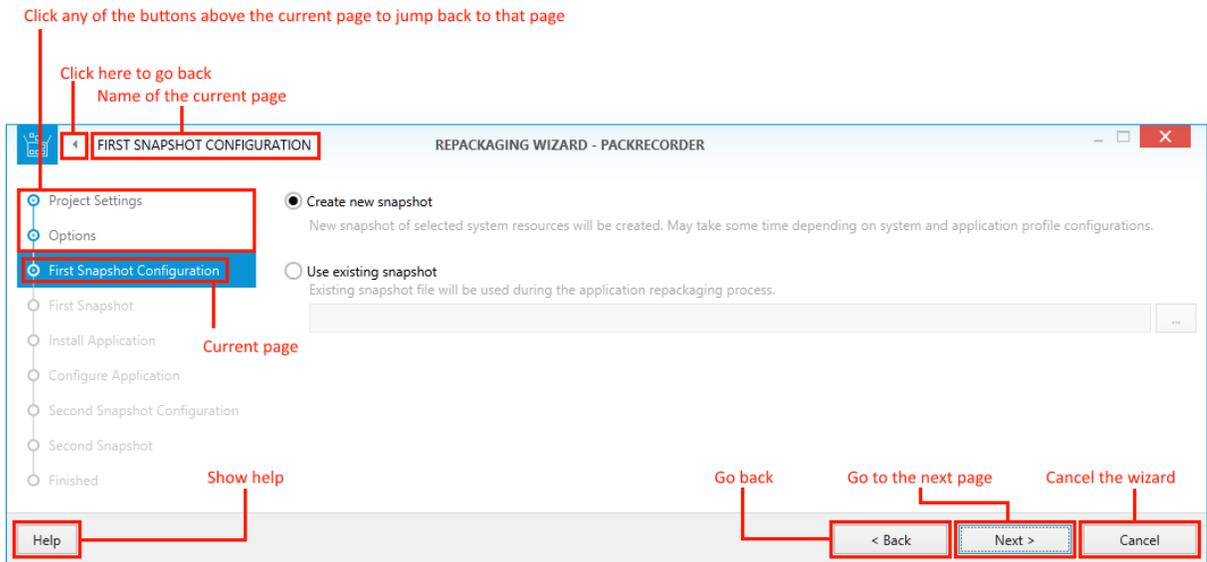# What's new?

General

New look & feel [RSC-104]

The brand new application shell adheres to Raynet 3.0 design guidelines.

The next generation of the RaySuite user interface will be gradually implemented within all Raynet products. Here is a quick introduction:

The wizards have been upgraded as well:

The intention of the UI redesign is to provide a clean and state-of-the-art canvas that does not only support everyday packaging tasks, but actually makes it easier to solve issues with the help of clearly guided procedures and structured views. RayPack users do not have to search for features, they just use them.

New virtual format: ThinApp (virtualization pack) [RPK-100;990]

Both PackRecorder and PackDesigner are now able to export ThinApp packages. In PackDesigner various settings in the build options screen can be used to control certain aspects of conversion. The actual version support for ThinApp generation depends on the ThinApp converter toolkit version installed on the packaging machine.
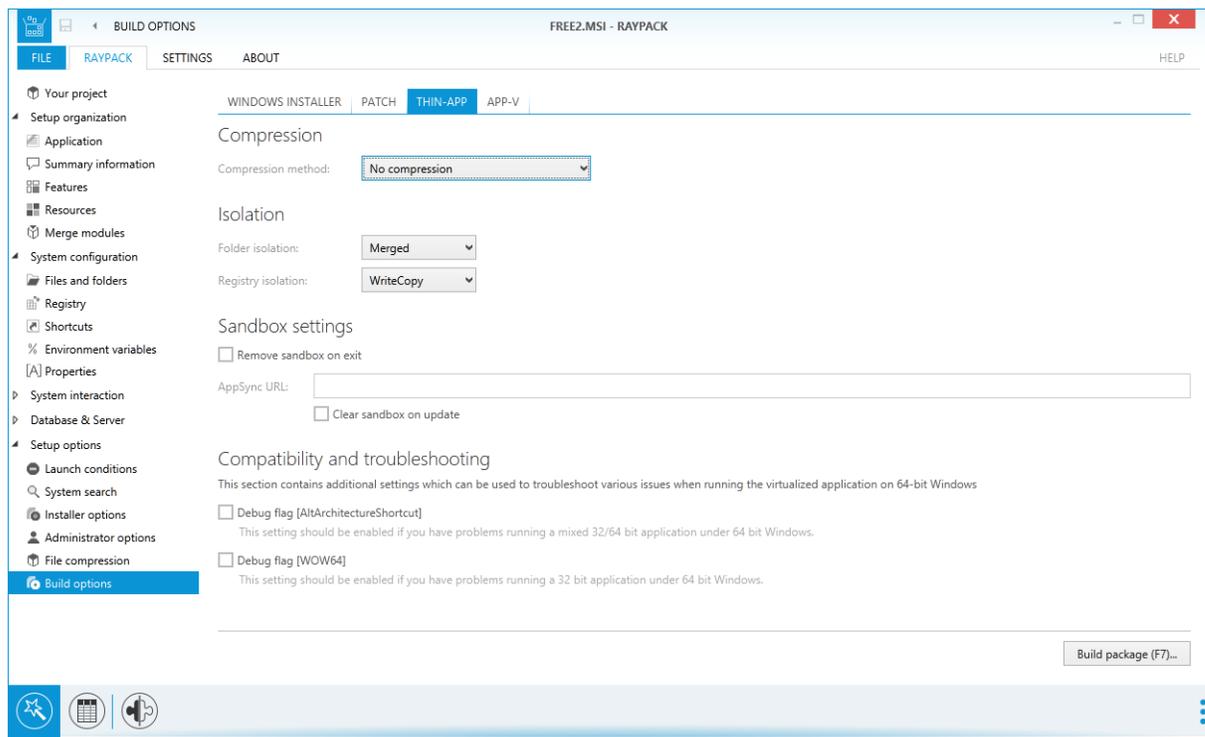
Package signing [RPK-1002]

MSI packages built by PackRecorder or PackDesigner may optionally be signed. The signature data is taken from the active settings profile, and signing itself is controlled via checkboxes in respective build options:
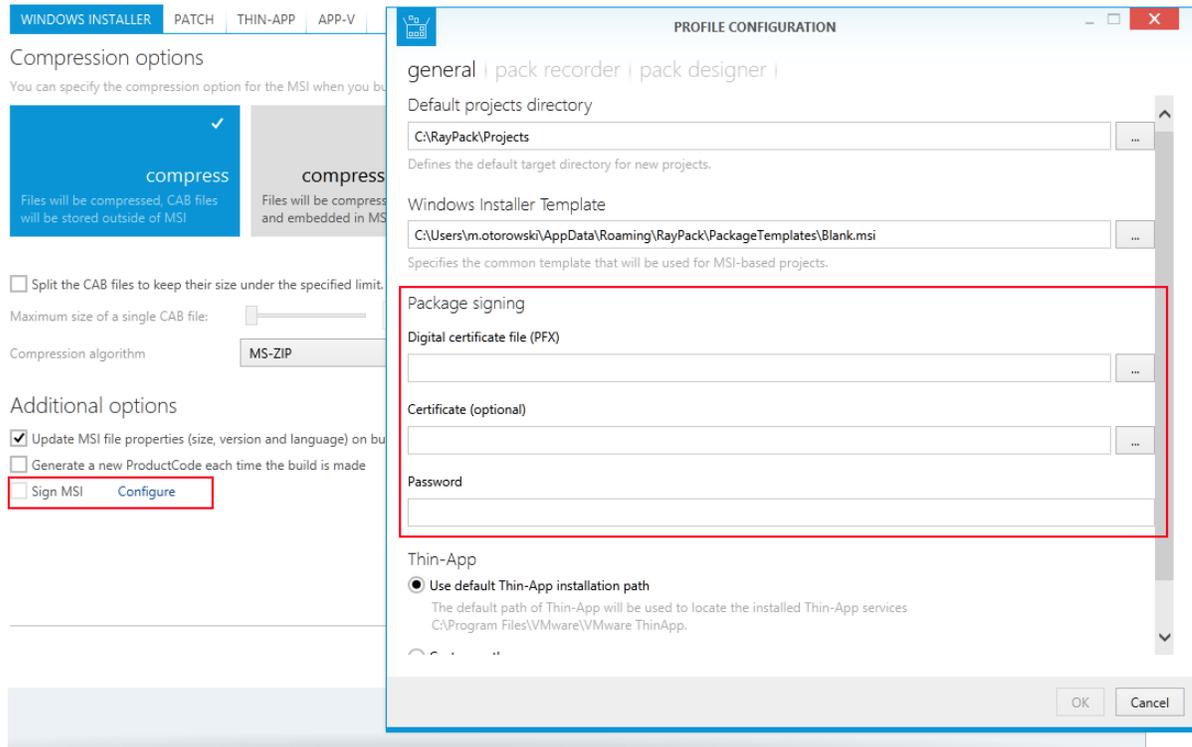
Providing signed packages for target environments with elevated security requirements has become a matter of minimal effort. Since the Build options and Settings area are tightly connected, it is even possible to switch digital certificates on the fly if needed.

RayPack®
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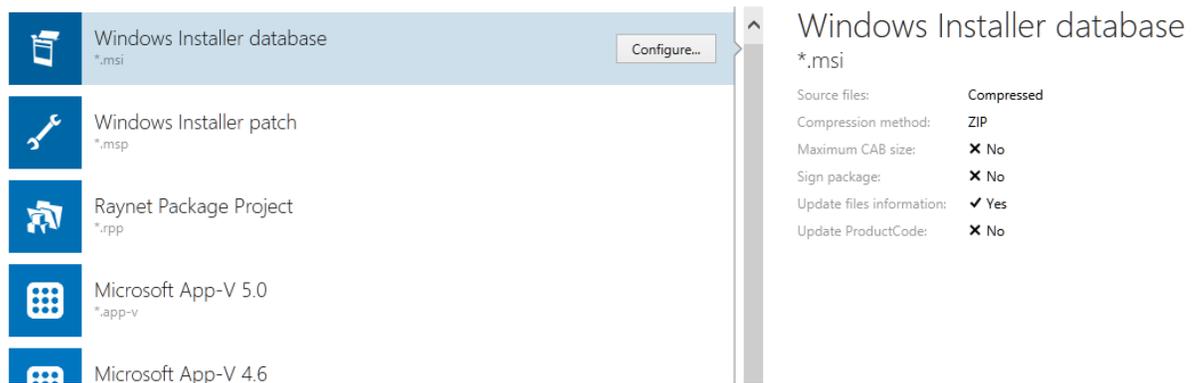
PackPoint [RPK-1003]

A feature available for professional and enterprise edition users, providing a central repository of common resources (templates, merge modules, exclusions, predefined properties, etc.). PackPoint settings are defined during the RayPack installation routine. Once established, PackPoint is an essential companion for the maintenance of high level teamwork and standardization measures in packaging factories.

Enhanced Build Screen [RPK-1061;1062]

The build backstage menu has been enhanced according to the feedback given by the RayPack user community: The current build settings are presented on the right side, and the button CONFIGURE... next to each configurable build target format can be used to jump to the proper section in the Build options view. The build dialog is available from any view within PackDesigner and PackRecorder: Users simply have to hit the good-old F7 on their keyboard to go there.

Build

To disk

		Windows Installer database
Windows Installer database *.msi	Configure...	*.msi
Windows Installer patch *.msp		Source files: Compressed
Raynet Package Project *.rpp		Compression method: ZIP
Microsoft App-V 5.0 *.app-v		Maximum CAB size: ✗ No
Microsoft App-V 4.6		Sign package: ✗ No
		Update files information: ✔ Yes
		Update ProductCode: ✗ No

New command line builder [RPK-947]

A new thin executable `rpcmd.exe` has been developed, ready to perform silent command line building. The tool is installed automatically along with the core application, and placed directly within the applications program directory, which is typically something like `C:\Program Files (x86)\RayPack\`.

The command line builder allows users to determine a source package or project file (supported file types: `*.msi`, `*.rpp`, and `*.rcp`), the required target format (`*.rcp`; `*.msi`; `*.rpp`; `*.sft`; `*.appv`; `*.xpf`; `*.dat` according to the RayPack license status), and additional options, such as CAB splitting settings, property values, package signing information, and so on.

With this flexible new RayPack tool kit extension, users gain a further stage of freedom regarding their individual procedure design for achieving common packaging duties.

Other

- App-V 4.6 and App-V 5.0 configuration (virtualization pack) [RPK-1101;1151]

- Enhanced language editors [RPK-739]

- Possibility to disable animations in the application UI [RPK-914]

- Integration of Get Started and About screens, added troubleshooting section [RPK-1042]

- Compacted MSI build screen settings [RPK-1062]

- Synchronized available platform options for RCP and RPP projects [RPK-797]

- Provide a way to inform the customer that his license is about to expire in less than 14 days [RPK-1289]

Resolved issues

- The file `_convert.rcp` could not be found when building an empty project to App-V or SWV format (virtualization pack) [RPK-980]

- Invalid conversion of registry entries to virtual formats from PackDesigner (virtualization pack) [RPK-1094]

- Profile version is not updated after installing a newer version with .NET4.5 [RPK-985]

- Excluding examples during installation crashes RayPack if Samples are accessed from About - Get Started screen [RPK-1071]

- Network drives of current user are not accessible from RayPack [RPK-1182]

- Duplicated registry key value names (in RCP) causes exceptions [RPK-1187]

- Building an MSI or RPP package containing icons and a product name containing invalid filename characters crashes [RPK-1190]

- After changing Profiles folder directory directly to the AppData folder RayPack crashes [RPK-1201]

- Support for screen resolution of 800 x 600 pixels [RPK-1277]

PackDesigner

## Extended RPP project validation [RPK-927]

The ICE validation menu contains a new set of options for RPP working sessions, allowing the selection of a validation target (the project itself, an MSI built from the project, or any other existing MSI).
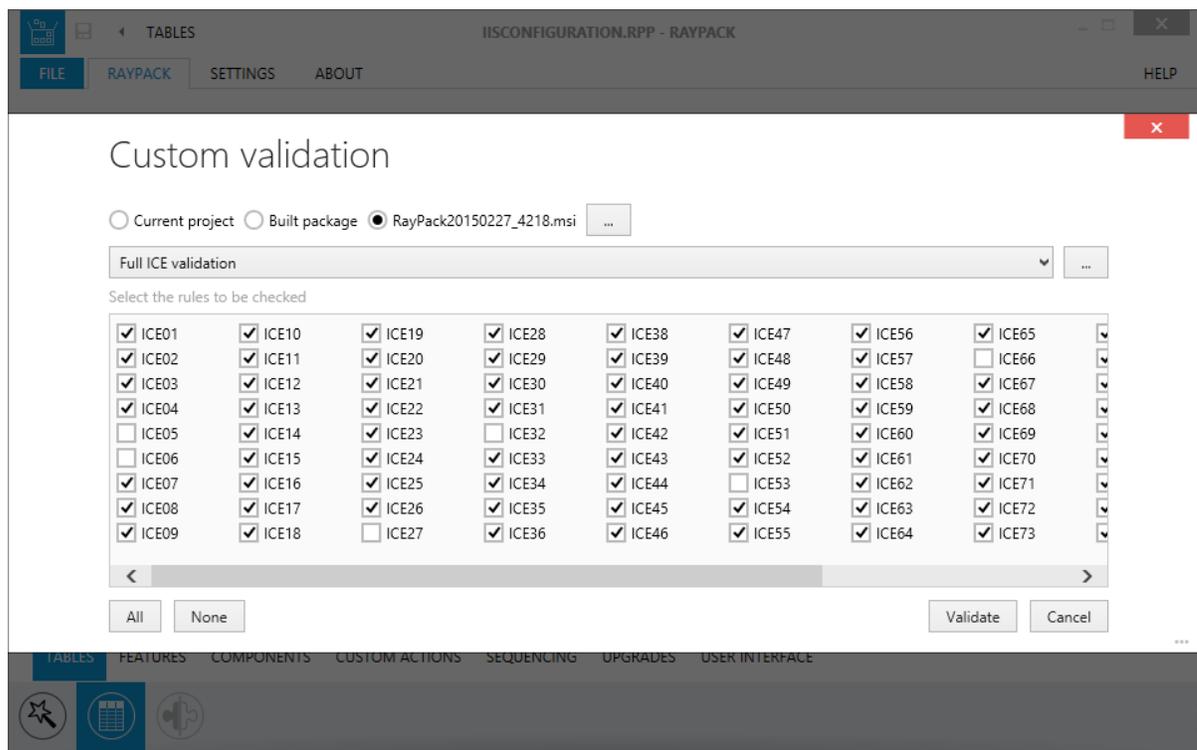
The default behavior (current project) can be easily overridden, so that the built Media tables are also validated. The results of validation are still presented in the well-known RayPack way, regardless of whether the validation target is the current project or another MSI. The different options for validation support packager needs according to the actual phase of package design they are in: They can either perform quick smoke tests on the current RPP contents, or make absolutely sure to deliver clean MSI structures based upon the temporary built package validation.

## Support for RemoveRegistry table [RPK-690;1152]

The Registry view of PackDesigner's Visual Designer mode and the Component view of the Advanced mode support a new type of operation called RemoveRegistry. It uses the standard MSI table under-the-hood of the OPERATIONS tab interface:
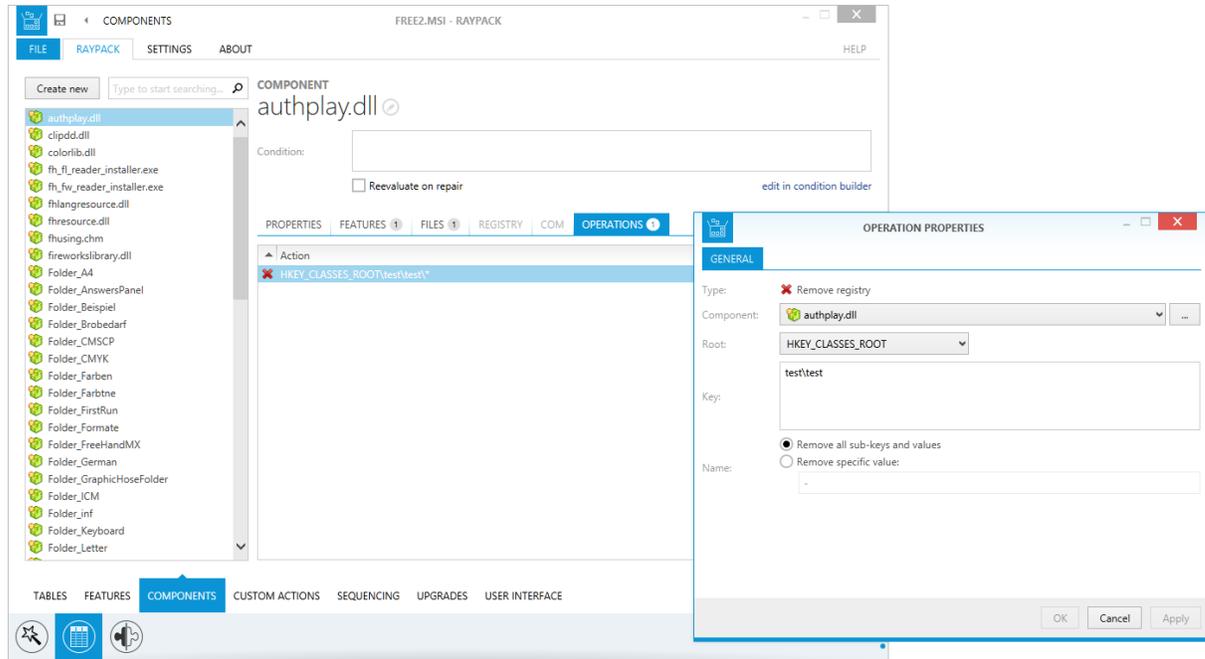
The operations tab of the Components view has turned into a fully featured control center for any advanced file or registry run-time operation required to master extended packaging needs. The new run-time operation is also available from the context menu of objects displayed within the Registry view of the Visual Designer mode.

Improved extension wizard and ProgId options [RPK-60;826]

The extension wizard allows the selection of a target file (instead of a component as in former RayPack releases). Additionally, icons for an extension can be specified via ProgId. These highly specialized changes may not seem significant, yet they actually add another extra level of technical excellence, driven by the general idea of ongoing product quality improvement.
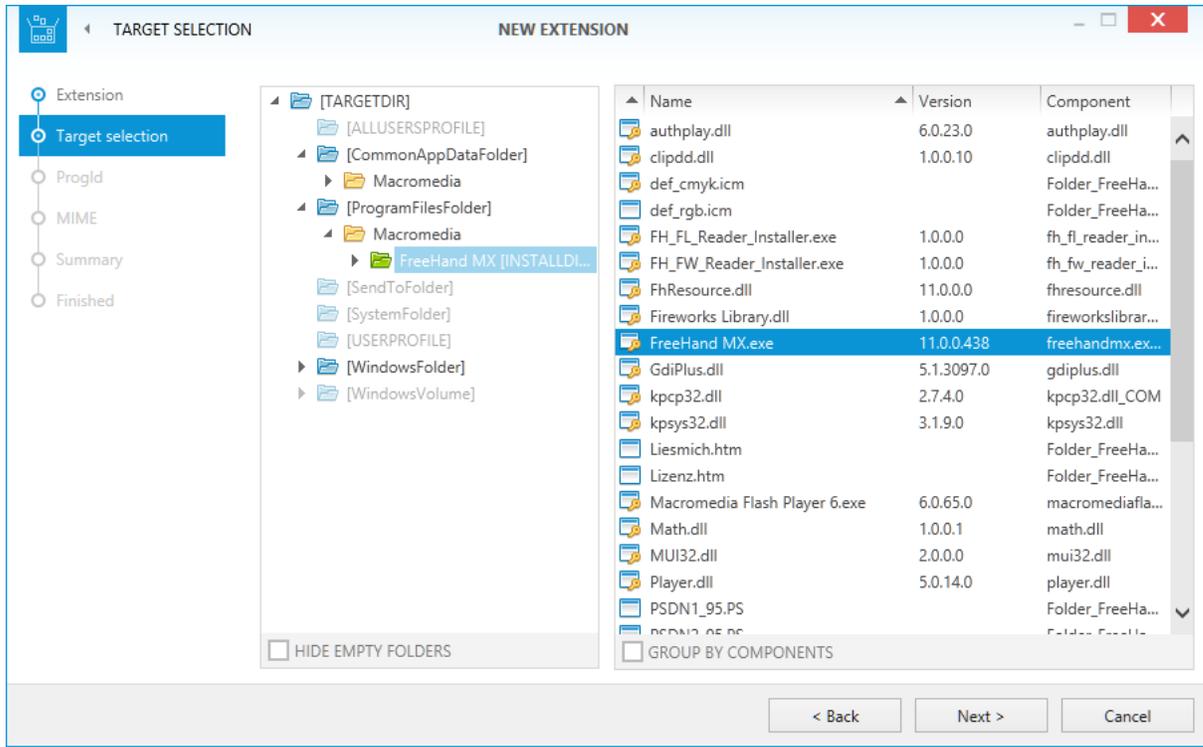
Other

- New options in MSP configuration [RPK-1026]

- RPP projects are stamped by schema and RayPack version [RPK-354]

- Added condition builder in the Custom Action wizard [RPK-810]

- Improved scanning and adding of supporting files in the drivers wizard [RPK-1135]

- Ability to set the 3rd bit in the summary information view (the elevated privileges requirement) [RPK-333]

- Speed up file imports – the import of files into PackDesigner is up to 2x faster than in RayPack 1.3 [RPK-487]

- New look and feel of IIS Web application property and web directory dialogs [RPK-1203;1224]

- Extension of Condition Builder snippets with Installed and NOT Installed [RPK-1274]

- New button to call condition builder within matching TABLES editor cells [RPK-934]

Resolved issues

- The Media table is empty after generating a project without files [RPK-47]

- File can be added to new project without target folder selection [RPK-597]

- Save button in the backstage menu is disabled when working with MSI+MST [RPK-702]

- Product name and Manufacturer property is clipped in Application section. [RPK-715]

- Double-clicking a file operation in the Files and Folders view does not open the properties dialog [RPK-875]

- Search highlighting is not always removed when it is no longer present in any of the search boxes [RPK-887]

- Navigating back in the ODBC wizard resets the driver description [RPK-900]

- ANSI characters are displayed incorrectly after importing the ANSI-encoded scripts [RPK-928]

- ICE 60 errors present in package after folder import [RPK-965]

- The language ID is not validated in the Upgrade wizard [RPK-968]

- Upgrade table row cannot be edited/removed if Language ID contains forbidden symbols [RPK-969]

- Application crashes during MSI building if target DIR is permanently deleted from Files and Folder view [RPK-972]

- The first column in the module content viewer shows unnecessary filter icon [RPK-973]

- Not needed warning message that comes after canceling the building [RPK-979]

- ArgumentException when clicking on the summary link "Immediately" in the Merge Modules wizard [RPK-989]

- RayPack does not shorten correctly to 8.3 filename convention [RPK-996]

- Adding a new row to the RPModuleSignature with only mandatory columns filled in throws exception [RPK-1011]

- Summary information - Code page field is populated with the same value as Language field [RPK-1016]

- Command line arguments text box is not fully visible in Custom action wizard [RPK-1018]

- A .reg file exported from PackDesigner view does not contain default values [RPK-1023]

- Files with identical names are overidden in the CAB files [RPK-1025]

- Permissions for registry keys are not shown in PackDesigner when reopening a project [RPK-1136]

- Creating FULL_ACCESS permissions for registry key sets incorrect flag "GA" [RPK-1137]

- Invalid window title for file operations [RPK-1041]

- Misleading custom action descriptions in Custom Action wizard [RPK-1051]

- Adding a folder called "Fonts" leads to what looks like having added the predefined folder "[FontsFolder]" [RPK-1054]

- The information from Action type tab is not properly adjusted when windows size is changed to minimum [RPK-1069]

- Application not responding when trying to expand the combo box with EXE sources in the custom action wizard [RPK-1105]

- Inconsistent Summary Information Stream view in PackDesigner/PackRecorder [RPK-1124]

- Registry import, when value has multiple equal sign giving unexpected results [RPK-1128]

- File operation - Move option should not be available in an empty project – CTD [RPK-1129]

- File extensions can be defined for any target file, but should be restricted to executables only [RPK-1133]

- INF scanner does not detect correctly the files located in driver's subfolders [RPK-1135]

- Permissions for registry keys are not shown in PackDesigner when reopening a project [RPK-1136]

- Creating FULL_ACCESS permissions for registry key sets incorrect flag "GA" in the SDDLString [RPK-1137]

- In specific scenarios, changing the name of the registry key does not update the tables [RPK-1139]

- Incorrect system search for Office 2010 [RPK-1141]

- Cell validation preventing usage of "=" sign in Condition field of ControlEvent table [RPK-1179]

- Inline custom action length in the dialog is limited to 255 characters [RPK-1180]

- Saving MST/MSI in PackDesigner may overwrite existing CAB files from other projects existing in the same directory [RPK-1189]

- Double clicking the column separator does not fit columns to width [RPK-1140]

- Synchronization between ODBC parameter in Visual Designer and values stored in ODBCAttribute table does not work [RPK-1144]

- Attribute editor for replacements in SQL scripts lacks value info [RPK-1191]

- Descriptions of predefined ODBC drivers on 32bit os may contain 64bit prefix.[RPK-1267]

- Deleting an ODBC driver may lead to broken properties of ODBC data sources [RPK-1158]

- ODBC Drivers - Wrong Location of x64 files [RPK-1254]

- TXT changes - execution on uninstall and full replacement on install erroneous [RPK-1217]

- Importing REG files from SysTracer creates an incorrect key structure [RPK-1278]

- Hidden DWORD value editor on APPLY if the current mode is HEX in the Registry value dialog [RPK-1280]

PackRecorder

Semi-automatic exclusion rule creation [RPK-77]

An additional "Add to exclusion list…" functionality has been implemented within the editor interface for PackRecorder resource types: file, folder, and registry. It allows to create an exclusion rule for a specific RCP resource object, and at the same time adjust and test the regular expression it operates with.

The havoc of dealing with regular expressions on one's own has therefore been mitigated to a level even packaging beginners can easily cope with.
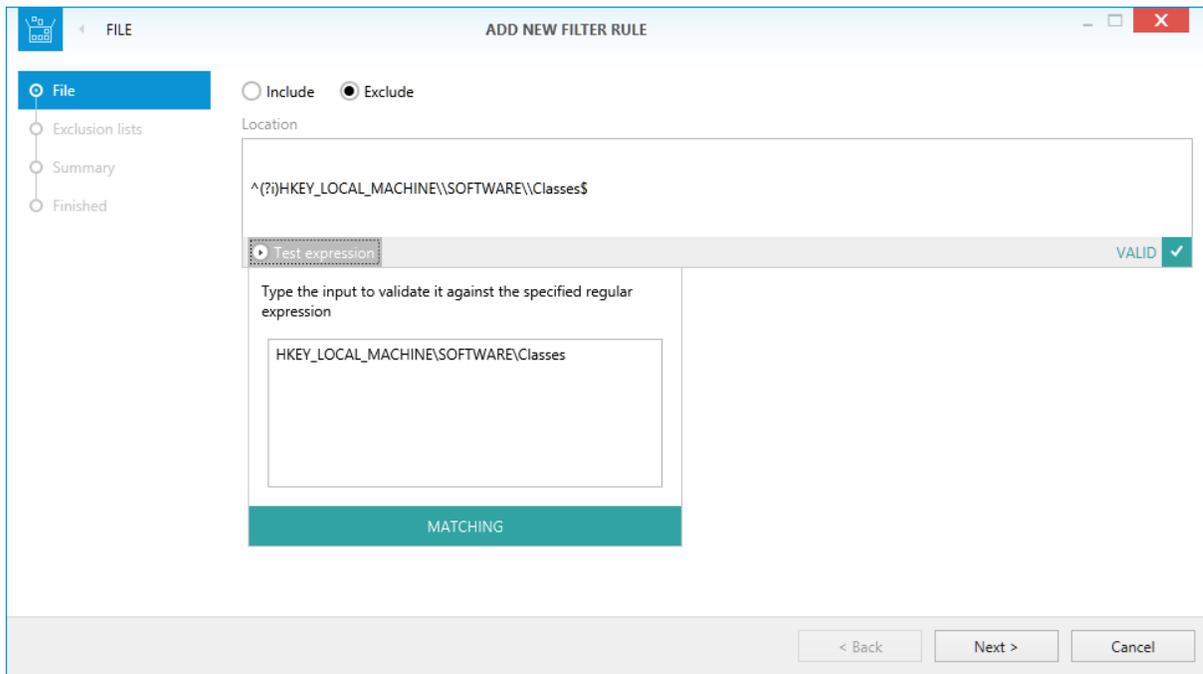
Others

- Hotkeys for exclusion / inclusion of items [RPK-1038]

- Ability to change the wizard mode directly in capture wizard [RPK-842]

- Improved readability of excluded items in PackRecorder [RPK-352]

- Ability to hide excluded items in PackRecorder [RPK-1181]

- Building MSI or RPP from RCP automatically adjusts the schema of Media and File tables to support more than 32767 files [RPK-1239]

Resolved issues

- The sidebar content in PackRecorder wizard is partially clipped [RPK-325]

- Confusing message when adding more drives in the delta project [RPK-569]

- Long processing or crash when comparing snapshots on Windows 8 [RPK-571]

- The left and right arrow buttons do not move the selection adorner in the registry structure in RCP file [RPK-716]

- INI file content extraction not working correctly [RPK-844]

- The content of RCP file is not immediately updated after loading another project [RPK-903]

- In PackRecorder after loading a new project, it keep the last view and not open the Your project view. [RPK-981]

- Empty tiles in PackRecorder / Your project section have wrong color [RPK-982]

- Resource files are not recorded during capturing an executable from a shared network location [RPK-1096]

- Root drive names in Files & Folders can be renamed to duplicate values [RPK-1109]

- Inconsistent Summary Information Stream view in PackDesigner/PackRecorder [RPK-1124]

- Exception is thrown when shortcut from rcp _src directory is imported into rcp project [RPK-1127]

- License wizard can be accessed directly from information dialog regarding missing feature license [RPK-1270]

- RCP generation randomly fails when unexpected version format is captured [RPK-1236]

- Cannot generate RPP from RCP but conversion from RCP to MSI is possible [RPK-1287]

PackTailor

Command line for PackTailor

Former releases of RayPack offered access to PackTailor functionality exclusively via the user interface. The new PackTailor command line interface allows extended control. Using custom scripts and automation routines in combination with our elaborated transform tailoring engine takes RayPack users another step closer to their very own perfect packaging processes.

```
RayPack.exe packTailor     [-msi "<MsiPath>"]
                           [-msiParams "<Parameters>"]
                           [-transforms "TransformPath1;TransformPath2"]
                           [-ignoreLaunchConditions]
                           [-ignoreSystemState]
                           [-mst "<OutputMstPath>"]
```

`[-msi]`

The fully qualified path to the MSI that is to be tailored (optional).

`[-msiParams]`

Command line parameters that are to be passed to the MSI (optional).

`[-transforms]`

List of transforms paths to be applied before tailoring separated by semicolon ';' (optional).

`[-ignoreLaunchConditions]`

Forces tailoring to ignore MSI launch conditions (optional).

`[-ignoreSystemState]`

Forces tailoring to ignore MSI launch conditions (optional).

`[-output]`

The path to the MST file (optional).

Installation

Preparing the installation

The RayPack installation resources come along as an MSI file with additional documents, such as the current Release Notes and a Product Activation Guide. Before the application is installed on a device, there are some preparations due:

1. Please make sure to have your order number or license file at hand. Either one will be provided by our support team, or your Raynet sales representative.

2. The packaging machine has to meet the system requirements described within the previous chapter.

3. A Windows User with sufficient rights for installations has to be logged in.

4. Please close all dispensable applications during the setup routine execution.
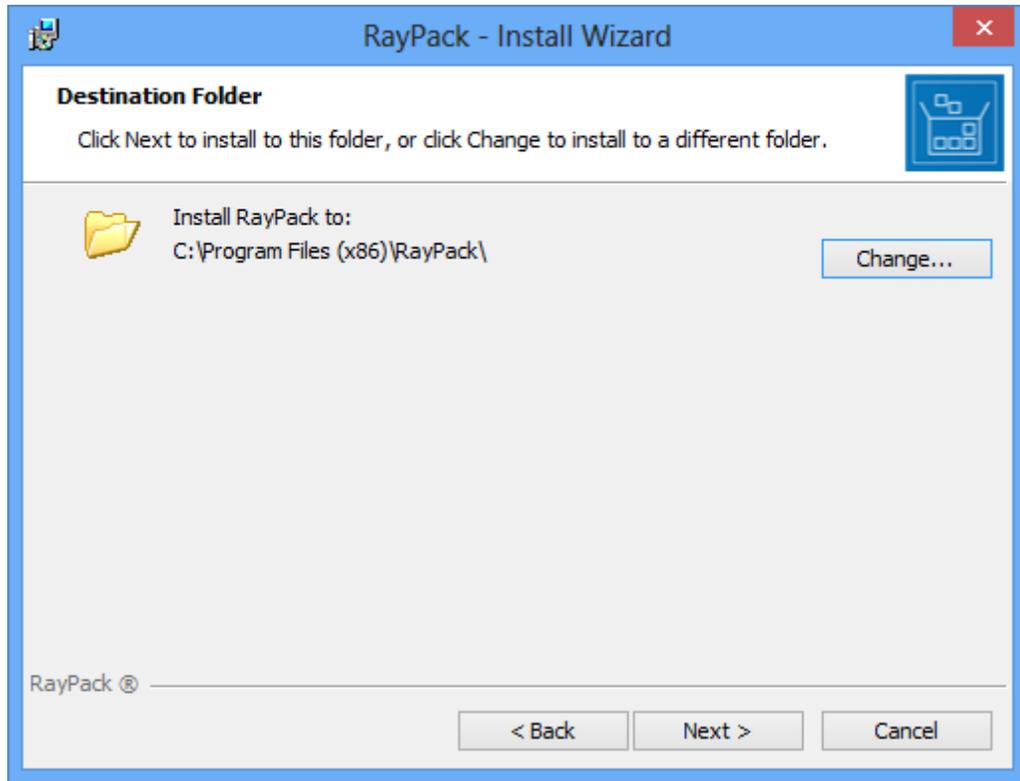
Installing RayPack

Launch the RayPack setup with a double-click on the MSI file and wait for the Welcome Screen to be prepared.
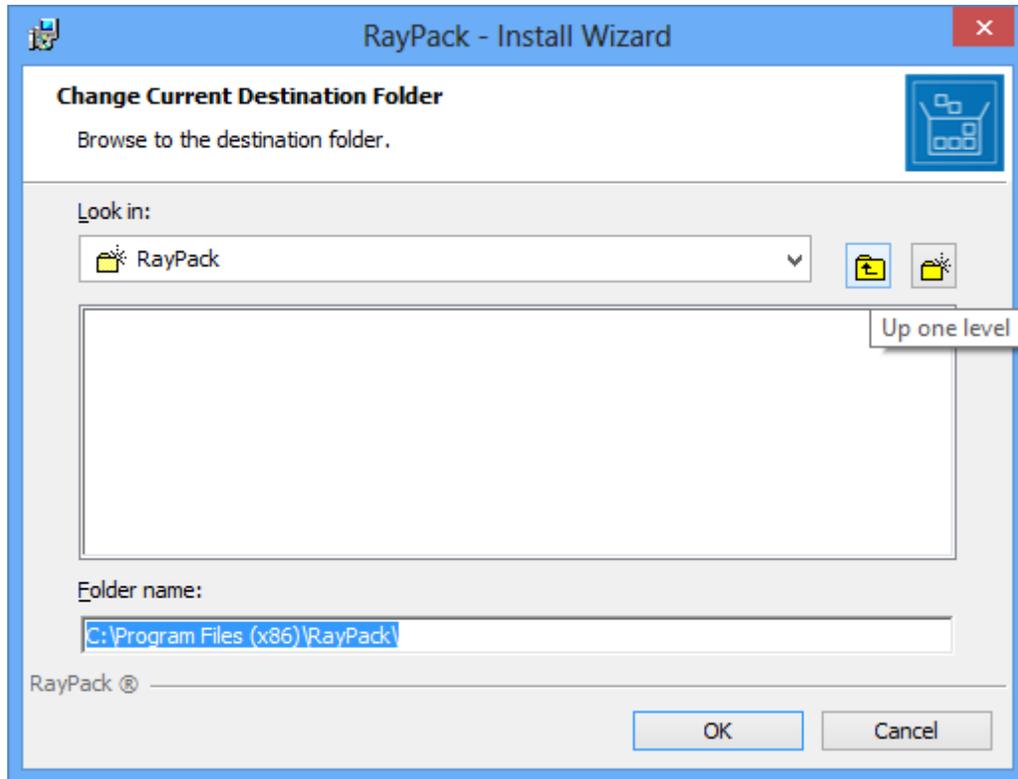
Click **Next >** to proceed.

In order to be allowed to install RayPack, the End User License Agreement has to be accepted. To do so, activate the upper radio selector control and click **Next >** to proceed.

Please choose the destination folder by either keeping the suggested default, or clicking on the **Change...**
button to select another target directory.

If a custom destination folder has to be defined, the dialog displayed above has to be used. Please use the icons to navigate to the desired installation directory, or to create a new one where necessary. As soon as the right target is defined, click **OK** to return to the Destination Folder screen. It has been updated to display the custom destination you just selected.

On the Destination Folder screen, click **Next >** to proceed.
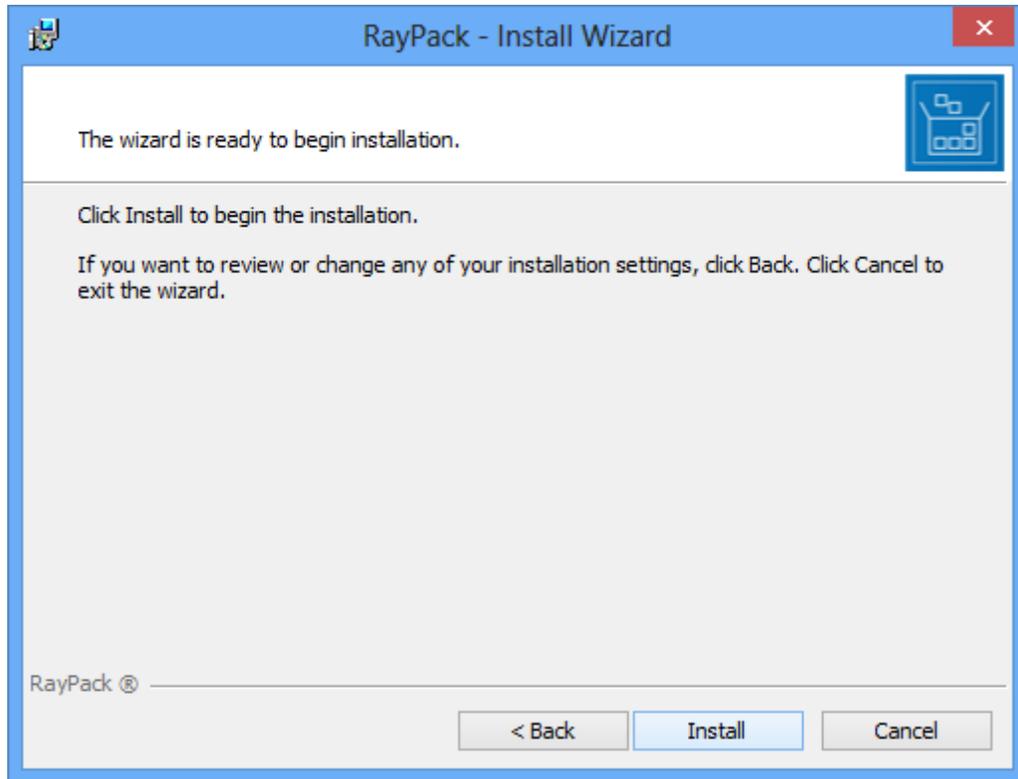
The Setup Type screen is displayed, presenting the three options available for RayPack installations:

- **Typical** installs the full RayPack application with all additional resources provided along with the software core.

- **Standalone** installs the Standalone repackager, which may be run on clean repackaging machines without product activation. The standalone mode allows to capture setups, and transfer the results into RPP files. To perform extended packaging tasks, or to tailor a transform, another machine with a full RayPack instance is required.

- **Custom** allows to remove some additional resources from the installation, such as the Merge Module Library and the Example files provided for a smooth start into packaging with our product.

Please select the desired option and click **Next >** to proceed. The content of the upcoming step depends on the selected type:

Setup Type: Standalone

RayPack is already prepared to be installed in the Standalone Repackager Mode.

Click **Install** to start the installation. Please skip the following instructions and jump directly to the installation progress indicator dialog description.
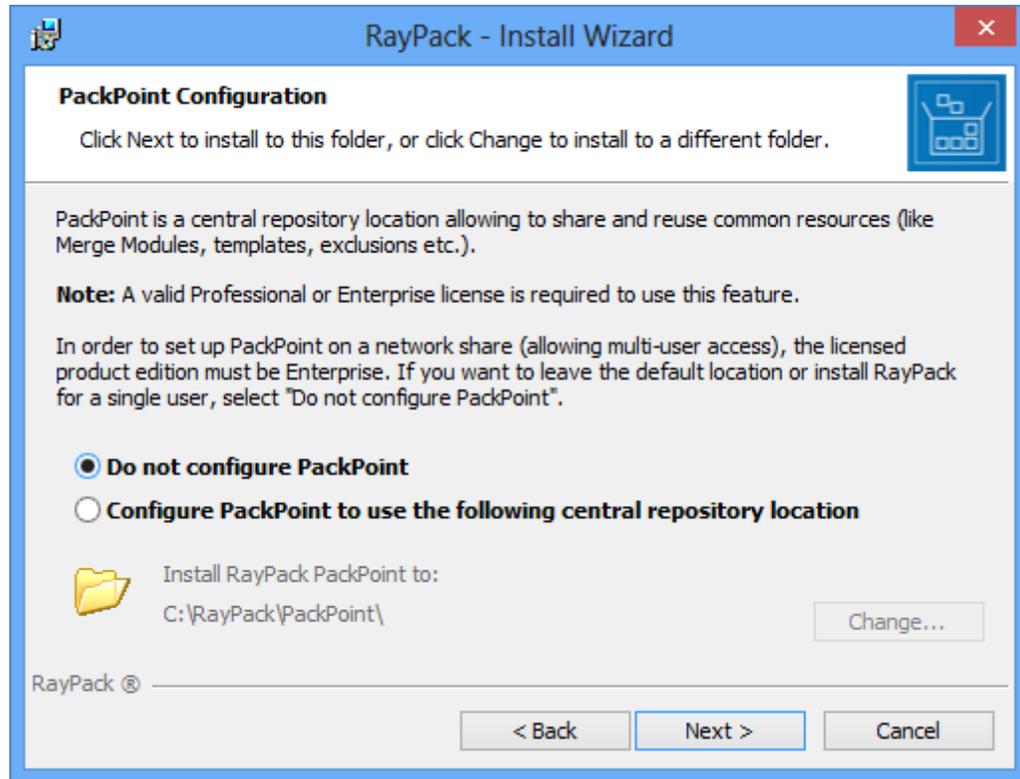
Setup Type: Custom

The custom setup screen is displayed, presenting the application features. To remove a feature from the installation, expand the installation status modificator menu as displayed within the screenshot below, and select "**This feature will not be available.**"
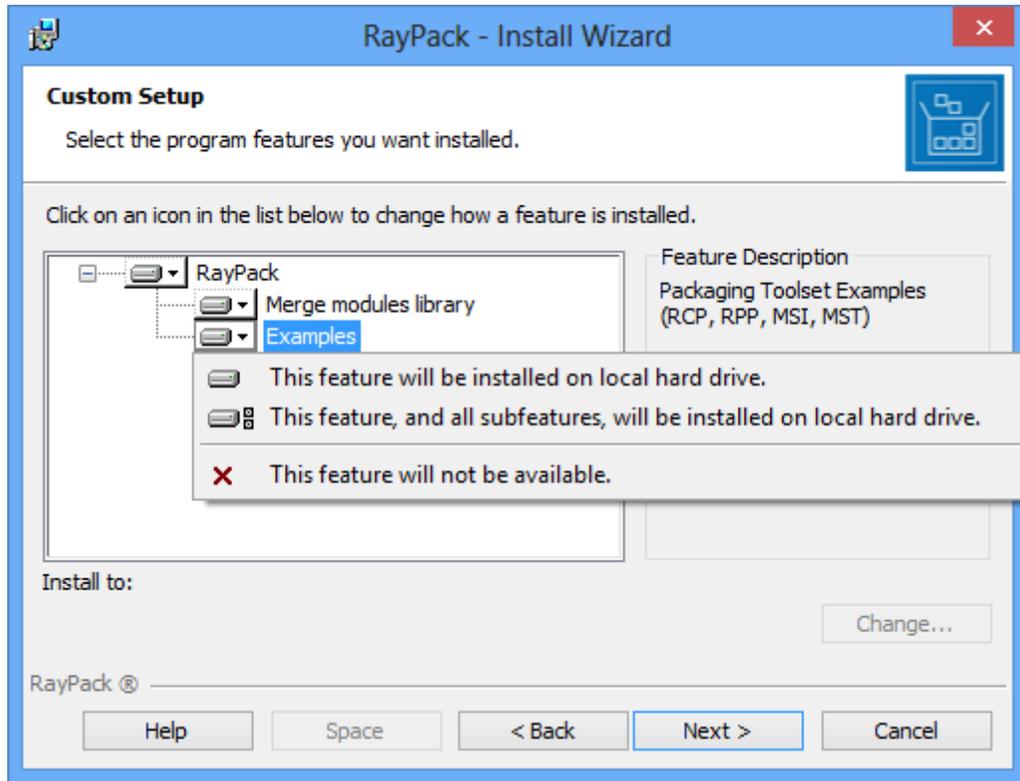
Click **Next >** to proceed.

The PackPoint Configuration screen is displayed.

Using PackPoint is optional, and RayPack is fully operational without this central repository for enterprise settings and configuration resources. However, using PackPoint is recommended for packaging factories and team oriented packaging processes. It helps to preserve customizations beyond product upgrades and the lifetime of local instance installations.

Please keep in mind that accepting the EULA includes accepting the license limitations for PackPoint as well. If you decide to use the PackPoint resource organization unit, the location of the PackPoint directory needs to comply your licensed RayPack edition:

- PackPoint may not be used for instances with RayPack Standard Editions.

- PackPoint may be used from a local directory with RayPack Professional Editions.

- PackPoint may be located locally or remotely for all Editions above Professional.

If PackPoint is about to be used for the new RayPack instance, it has to be configured. To do so, activate the radio option "**Configure PackPoint to use the following central repository location**". Please choose the PackPoint destination folder by either keeping the suggested default or clicking on the **Change...** button to select another target directory.

If a custom target directory definition is required, use the icons available within the Define custom target destination screen to navigate to the desired installation directory or to create a new one where necessary. As soon as the right target is defined, click **OK** to return to the PackPoint Configuration screen. It has now been updated to display the custom destination just selected.

Click **Next** > to proceed.

The License Type screen provides options to either activate the RayPack instance via order number and online activation service or by using an already prepared license file (`*.license`), or to skip activation for now. If the activation is skipped, it has to be performed later anyway, as soon as RayPack is launched.

To use an already existing license file, which most likely has been provided to you by the Raynet support team, the **Browse...** button has to be clicked. Use the controls of the system browser dialog to navigate to the `*.license` file, and select it with a click on the **Open** button.

Click **Next >** to proceed.

If activation by order number has been selected during the previous step, the Customer Information screen is displayed:

Please enter your individual RayPack Order number, and provide required user information, such as E-Mail, user name and company name. The information will be used to verify the order number during the upcoming installation execution procedure.

Click **Next >** to proceed.
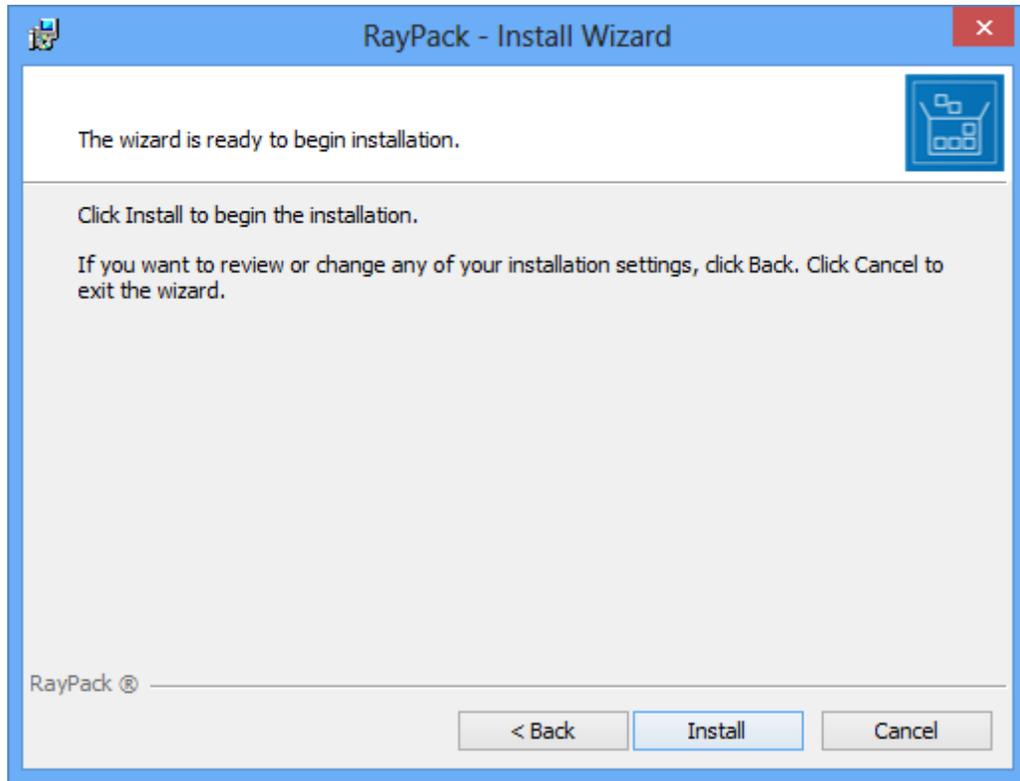
All required settings and properties are defined - RayPack is ready to be installed. Click **Install** to start the process.

A Progress Indication dialog is displayed as long as the installation steps are executed.
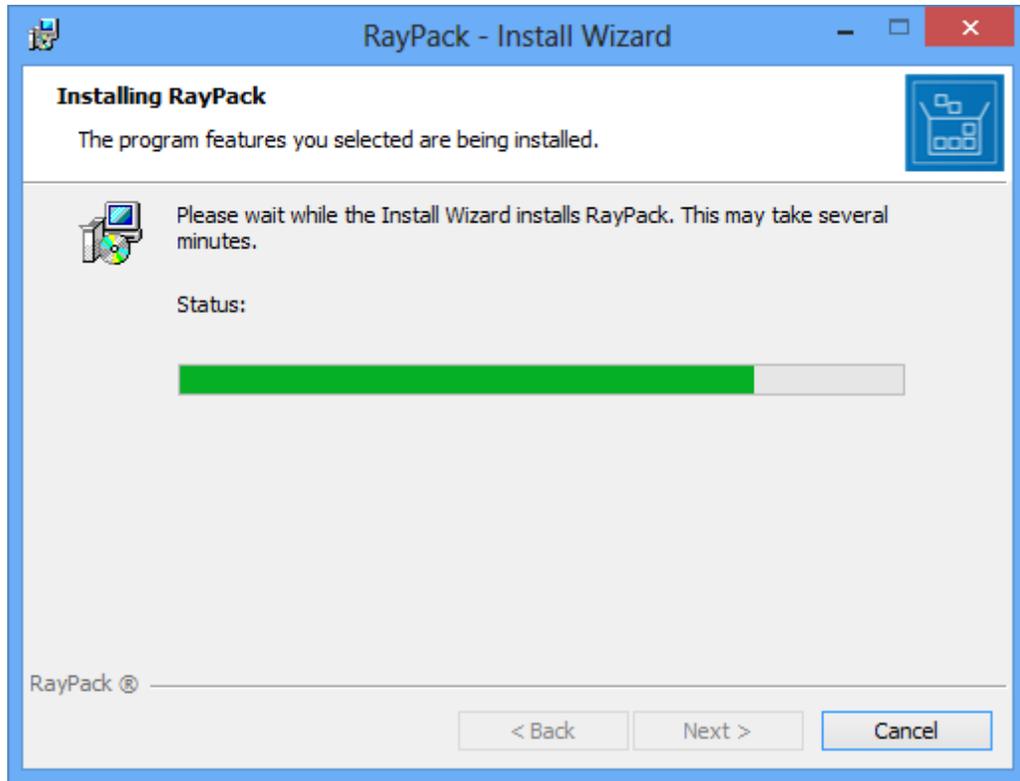
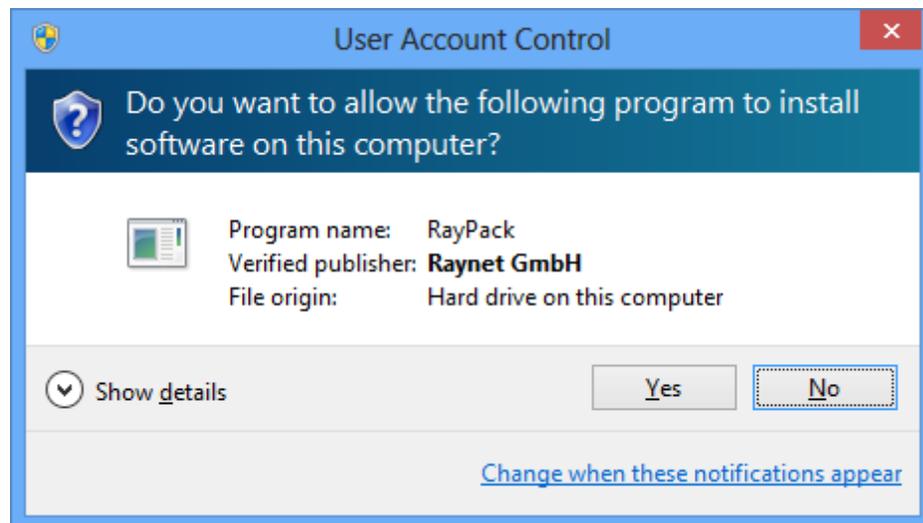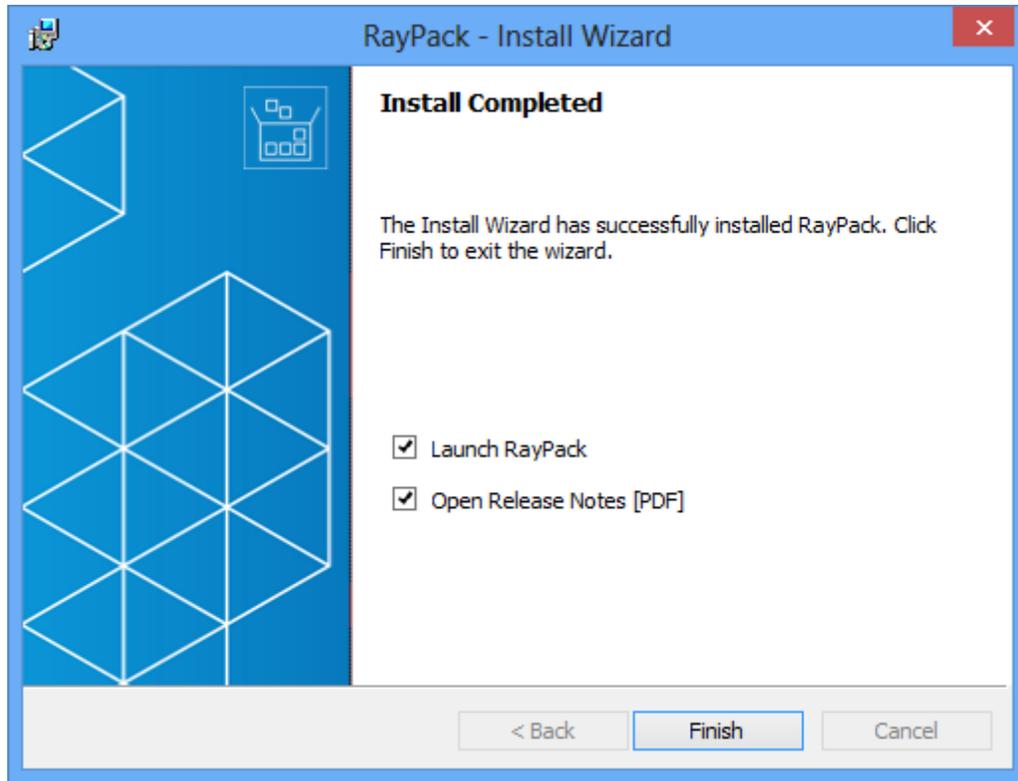Whilst the installation is executed, Windows may present a User Account Control message like the one shown below:

Click **Yes** to perform the installation.

As soon as all required measures are done, the Install Completed dialog is presented. Activate the checkboxes to immediately launch RayPack, and to read the Release Notes with essential information about requirements of the installed product version as well as with listing of new features and issues which have been solved or documented.

Click **Finish** to exit the setup.

If the "Launch RayPack" option has been activated, the application is loaded immediately. Whilst the software is launched, another Windows User Account Control message may be displayed.
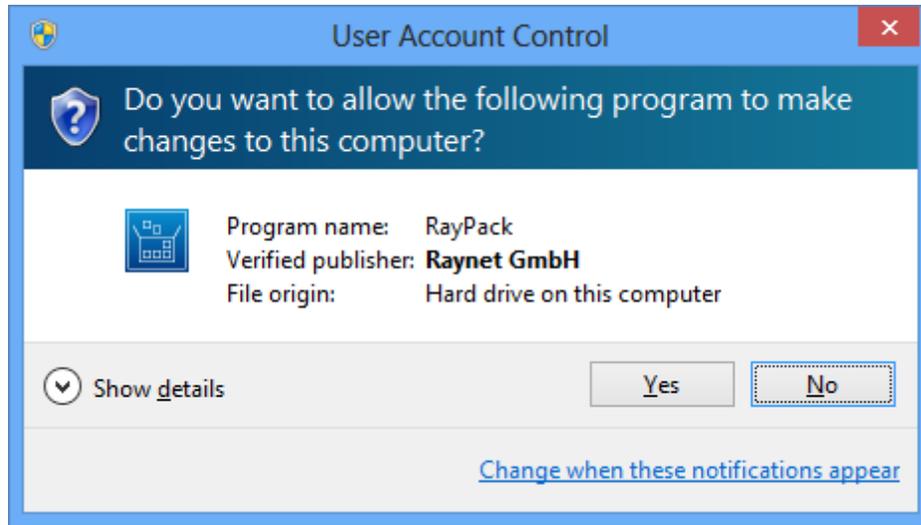
Please click **Yes** to proceed if that message occurs.

If the product activation has been executed already, there will be a RayPack loading screen whilst all required application resources are prepared.

If the RaySuite License Activation Tool is shown instead, there has either been no activation during setup, or it failed. Please use the options provided by the License Activation Tool interface to handle the different product activation options and measures. Further information regarding this process is available from the License wizard section of the User Guide.

As soon as the Home Screen of RayPack is displayed, your packaging tool is ready for action.

Note:
The launch routine of RayPack makes sure that all required resources (such as a valid license, PackPoint or local configuration files, etc.) are present, accessible, and valid. Due to these checks, there may be re-occurring system messages displayed during each start of the application, such as a

warning in case of license files with a remaining period of less than 14 days, or prompts regarding missing or broken PackPoint configuration or resource files.

Migration

General aspects of migration

Enable PackPoint usage

The newly introduced PackPoint allows users with professional and enterprise licenses to define a local (professional) or network-based (enterprise) organizational unit, which preserves long lasting resources, such as templates, merge modules, exclusions, and so on.

Before an upgrade from earlier releases is executed, users with modified resource files within these areas should make a backup of them. Here is an overview of resources that are handed over to PackPoint control if a PackPoint is setup for a RayPack packaging environment:

Resource location in prior RayPack versions	Resource location in RayPack 1.4 PackPoint
[InstDir]\Resources\ICE.xml	[PPDir]\ICE.xml
[InstDir]\Resources\MergeModules	[PPDir]\MergeModules
[InstDir]\Resources\PredefinedSearchs	[PPDir]\PredefinedSearchs
[InstDir]\Resources\Property	[PPDir]\Property
[InstDir]\Resources\Validation	[PPDir]\Validation
[InstDir]\ConfigurationTemplates\	[PPDir]\Default
[InstDir]\ConfigurationTemplates\Filters	[PPDir]\Default\Filters
[InstDir]\ConfigurationTemplates\PackageTemplates	[PPDir]\Default\PackageTemplates
[InstDir]\ConfigurationTemplates\Profiles	[PPDir]\Default\Profiles

> **Note:**
>
> [InstDir] is the RayPack installation directory, which is typically something like C:\Program Files (x86)\RayPack\
>
> [PPDir] is the PackPoint location directory, typically something like C:\RayPack\PackPoint\ for a local PackPoint instance as permitted by professional edition licenses.
>
> Both directory locations are freely configurable during the RayPack installation, therefore the actual locations on your packaging machine may vary.

Once RayPack is installed with a specified PackPoint location, it is required to transfer the existing modifications from the backup location to the new PackPoint.

If you encounter any issues with the setup or maintenance of PackPoint, please contact our support team - we will gladly assist.

Required adjustments for specific upgrade paths

Migration from 1.3 to 1.4

The migration from version 1.3 is a straightforward process. In order to migrate, simply start the setup of the RayPack 1.4 installation media.

Migration from 1.2 to 1.4

The following areas have changed compared to RayPack 1.2 and may require additional attention when migrating an existing installation:

PROFILES

Note: If you delete the `%APPDATA%\RayPack` folder before starting the application, the default profile will be recreated. In this case you can skip the following advisory information.

- **The exclusion filters for services have a different syntax**
  Previously, the location attribute was used to filter the services in `*.rpexl` files. Version 1.4 changes the name of the attribute from "location" to "name". If you are using an exclusion list created/delivered with RayPack 1.2 or earlier, you may want to adjust the name of the attribute manually.

- **The default projects folder has changed**
  The default folder where projects are saved has been changed from `<MyDocuments>\RayPack\Projects` to `C:\RayPack\Projects`. This change means that projects are by default saved to a location that is accessible for all users on a given machine. The profiles that were created with RayPack 1.2 or earlier will not be updated to automatically use the new location. If you want to change the default project saving path:

  Launch RayPack > click on the FILE button present at the left-hand side of the menu bar > select Options > choose the required path in the GENERAL section.

- **The default template has changed**
  We introduced several improvements to the default template and also included an optional template supporting more than 32767 files per project (MSI limitation). When using an old profile, your template will not be updated to preserve any custom changes you may have made since the installation. In order to use the new templates, simply copy them from `<RayPackInstallDir>\Templates` to your profile (default `%APPDATA%\Roaming\RayPack\PackageTemplates\`). If you have a highly customized template, contact our support team via support@raynet.de, we will be happy to migrate it to include the new features present in the recent templates.

LICENSING

- **New licensed feature for MSP creation.**
  RayPack 1.4 supports Windows Installer patches (`*.msp`). If you are migrating from RayPack 1.2 or earlier, your license data does not contain the necessary information to activate the feature, making it not visible in the UI. If this is the case, simply reactivate RayPack using the same order number, and the necessary license information will be automatically downloaded from the server.

INTEROPERABILITY

- **The RayFlow command line has changed**
  If you are using RayPack in conjunction with RayFlow, please refer to the RayFlow product

documentation, or contact our consultants to adjust the RayFlow subsystem in your environment.

Migration from earlier releases to 1.4

The licensing system in current RayPack releases is far more flexible, allowing the tailoring of your license to actual business needs. Therefore, all licenses generated for versions 1.1 and earlier have to be reactivated for productive use in RayPack 1.4. Please make sure that you delete all `*.license` files from the installation folder (default `C:\Program Files (x86)\RayPack`) and then simply start RayPack or contact our support in order to get a new license.

Of course all order numbers generated for earlier product versions are still valid, and were automatically converted to the new edition.

Additionally, in recent RayPack releases, Raynet improved the settings and packaging environment by merging the templates for the new MSI (RPP) and repackaged projects (RCP). For the best packaging experience it is recommended to clear the old profiles folder on the machine that is actually affected by the upgrade. The old profiles are located in `%AppData%\RayPack` folder.

If you use a highly customized profile, please contact our support team via support@raynet.de, we will be happy to assist you on the migration process.

Troubleshooting

If you experience abnormal symptoms (like program not starting, missing features etc.) after the upgrade, we highly recommend to perform the clean installation of RayPack 1.4. In order to do that, please perform the following steps:

1) Locate your product order number. If you can't find it, contact our support.

2) Make a backup of your license file (by default installed to `C:\Program Files (x86)\RayPack \*.license`)

3) Uninstall the previous version of RayPack

4) Delete content of the installation folder (by default `C:\Program Files (x86)\RayPack`)

5) Install RayPack 1.4.

6) Start the main program to re-activate RayPack again.

If the issues are not resolved after performing the steps described above, the following steps will revert the profile to the original state:

7) Close RayPack

8) Backup and then remove the content of the following folders:

- `%AppData%\RayPack`

- `AppData\Local\Raynet`

9) Start RayPack again.

If the procedures given above did not resolve the issue, please contact our support.

System Requirements

Hardware Requirements

This section lists the minimal hardware requirements for devices 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

Note:
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

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 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

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.

Virtualization pack prerequisites

In order to create **SWV** packages, the Symantec Workspace Virtualization Agent 7.5 has to be installed on the packaging machine.

In order to create **ThinApp** packages, VMware-ThinApp-Enterprise-5.1.x or VMware-ThinApp-Enterprise-4.6.x has to be installed on the packaging machine.

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.

RayPack is part of the RaySuite

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