RELEASE NOTES

PACE Packager Hub 2.3.0

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1 Overview

PACE Packager Hub is an end-to-end solution fully dedicated to customer servicing, teamwork, and management of packaging tasks in teams of any size. It is designed to significantly ease the fulfillment of packaging quality standards and increase the productivity of each member of the packaging team while providing an efficient tool for the management of the teams and the application packaging lifecycle. It operates as a joining link between customers, supervisors, packaging engineers, and their tools.

The solution is already pre-configured for the packaging processes out of the box, provides the best practices approaches, and has extensive customization options.

PACE Packager Hub consists of the Task Manager (Workflow) and Repository Manager modules.

Highlights:

- A central store for all orders for packaging and packages themselves.
- Provides statuses of all packaging orders/tasks.
- Automates the routine operations and stores the results.
- Controls the assignments and completion of orders/tasks.
- Balances the workload of team members.
- Manages permissions based on the assigned roles.
- Provides enhanced customization when adding/configuring fields, workflows, and scripts.
- Manages packages and files on various repositories.
- Supports direct upload/download of files of any size.
- Controls the integrity of files.
- Supports multiple isolated projects.
- Provides the REST API for tight integration with clients' ecosystem.

PACE Packager Hub solution consists of the on-premise Server that has the Web interface and Desktop app client.



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On-premise Location





2 Prerequisites and Requirements

2.1 Server-side Prerequisites

OS	Windows or Windows Server OS that supports ASP.NET Core Runtime 3.1.24 or higher									
	•	ASP.NET Core Runtime 3.1.24 or higher Install this prerequisite before installing PACE Packager Hub. NOTE: Please ensure that you are downloading and installing the Hosting Bundle.								
		Build app			Run ap	os - Runtime 🗊				
		SDK 3.	1.418		ASP.N	NET Core Runtim	e 3.1.24			
		OS Installers		Binaries	The ASP	NET Core Runtime enables.	you to run existing web/server			
		Linux	Package manager instructions	<u>Arm32 Arm64 x64 x64 Alpine</u>		ions. On Windows, we reconcludes the .NET Runtime	ommend installing the Hosting Bur and IIS support.			
		macOS	<u>x64</u>	<u>x64</u>		me support (ASP.NET Cor				
		Windows	<u>x64 x86</u>	<u>Arm32 x64 x86</u>	13.1.22089.24					
		All	dotnet-install scripts		OS	Installers	Binaries			
Middlew are		Visual Stud	dio support lio 2019 (v16.7)		Linux	Package manager instructions	Arm32 Arm64 Arm64 Alpine x x64 Alpine			
			sual Studio 2019 for Mac (v8.10)				<u>x64</u>			
		Included in Visual Stud			Window		<u>Arm32 x64 x86</u>			
		Included r	untimes			<u>X86</u>				
	•	 <u>IIS Web Server</u> Only enable and configure this prerequisite before installing PACE Packager Hub with the selected "For Production" purpose of use and if you prefer IIS Web Server over Kestrel. <u>Microsoft SQL Server 2016</u> or higher Only install and configure this prerequisite before installing PACE Packager Hub with the selected "For Production" purpose of use. 								
Privileges	Ad		ative privileges on t							
	CP	U 64-h	it (x64) processor a	at 2.4 GHz or greater						
Hardware										

HDD: 1 GB free space



Network: 100 Mbit

2.2 Client-side Requirements

2.2.1 Supported browsers

Desktop	 <u>Google Chrome (Desktop) latest stable release</u> Latest stable version of Web Browsers based on Chromium
	NOTE: Please ensure that JS support is enabled.
Display	1280 x 800 resolution or higher

2.3 Desktop Client Requirements

OS	Windows or Windows Server OS that supports .NET 4.7.2 or higher
Middleware	Microsoft .NET Framework 4.7.2 or higher
Privileges	Regular user privileges on the system
Hardware	CPU: 32-bit (x86) or 64-bit (x64) processor at 2 GHz or greater RAM: 2 GB HDD: 100 MB free space Display: 1280 x 800 resolution or higher Network: 100 Mbit



3.1 About This Release

The new version of **PACE Packager Hub** includes:

- **REST API** section 3.2
- Bulk Edit section 3.3
- Table Templates section 3.4
- Individual IDs Prefixes section 3.5
- Business Rule Enhancements section 3.6
- Dashboard Customization section 3.7
- Improvements section 3.8

We are very grateful to everyone who has made a significant contribution to PACE Packager Hub by responding to our surveys and providing feedback. The obtained information became the basis for the product roadmap.

Share your further feedback and suggestions with us and get the product tailored to your needs.



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3.2 REST API

		Select a definition Public Web API v1	~
Public	c Web Api v1 🖤 🏧		
			Authorize 🔒
PublicA	pi		~
GET	/api/v1/projects Get Projects List		a
GET	/api/v1/users Get Users List		•
GET	/api/v1/project/{projectId}/ordertypes Get Order Types List		٩
GET	/api/v1/ordertype/{orderTypeId}/attributes Get Attributes List of Order Type		•
GET	<pre>/api/v1/ordertype/{orderTypeId}/statuses Get Statuses List of Order Type</pre>		•
GET	/api/vl/project/{projectId}/orders Get Orders List		Ê
GET	/api/vl/order/{orderIdOrRecordId}/attributes Get Order Attributes		â
PUT	/api/vl/order/{orderIdOrRecordId}/attributes Set Order Attributes		â
	/api/v1/orderType/{orderTypeId}/order Create Order		A

Meet the PACE Packager Hub REST API functions for tight integration with the client's ecosystem. The API allows to remotely interact with the PACE Packager Hub server to get or set the necessary information.

PACE Packager Hub provides APIs for the common functions for working with Orders, namely:

- Get a list of Orders of the project.
- Get attribute values of the Order.
- Set/update attribute values of the Order.
- Create a new Order.
- Get a list of projects.
- Get a list of users.
- Get a list of order types of the project.
- Get a list of available statuses of the order type.



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• Get a list of attributes, attribute settings and possible attribute values of the order type.

The PACE Packager Hub API requires authorization via the Bearer token, which can be generated and easily revoked in the Settings > System > API page.

3.3 Bulk Edit

Orders	All orders	Assigned to	me Active	Histori	ical	Deleted orders		:		order
								Bulk edit		
Order ID 🔿	Order Title	Order Type 🛛 🗘	Status 🗘	Complexity 🔿	Priority 🔿	Creation Date	Due Date 🔿 Com	pl Bulk status change	Assignee 🖒 A	ctions
DM5-7	Test Order 5	 App Packaging 	 Internal Testing 	Complex	🗕 High	10.05.2022 15:48:45	17.05.2022	Table settings	0 Victor Feschenko	1
DM5-6	Test Order 4	App Packaging	New	Basic	 Normal 	10.05.2022 15:48:34			4	1
DM5-5	Test Order 3	App Packaging	 Ready for Packaging 	Basic	Low	10.05.2022 15:47:50		Table templates	2	1
DM5-4	Support Request Order 1	 Support Request 	In Progress	Medium	🗕 High	10.05.2022 15:47:37	13.05.2022	Reset to default view	8 Victor Feschenko	1
DM5-3	Bug Fix Order 1	Bug Fix	Packaging	Easy	Critical	10.05.2022 15:47:12	12.05.2022	My table template 1 ×	8 Victor Feschenko	/ 🗈
DM5-2	Test Order 2	 App Packaging 	Canceled	Basic	 Normal 	10.05.2022 15:46:37	10.05		2	1
DM5-1	Test Order 1	App Packaging	Closed	Basic	 Normal 	10.05.2022 15:40:24	11.05.2022 10.05	5.20 Save as new template	8	/ 1

Edit multiple Orders at once using bulk operations. Update the necessary attributes (fields) or Status with the **Bulk edit** and **Bulk status change** features, respectively.

With a convenient selection approach, you can choose items one-by-one or select groups of items by ticking a checkbox of the first item and then pressing the Shift key while ticking the last checkbox.

Please, note that **Bulk status change** allows skipping the defined workflow steps and is only available to the Supervisor.



3.4 Table Templates



Configure the table columns, sort options, filters, and save this configuration as a personal **Table template**. Easily switch between multiple table templates to find the necessary Orders and Packages in your projects. Create as many templates as you want and reset the table configuration to the default view with one click when you need to cancel the template settings.



3.5 Individual IDs Prefixes

Project: Demo Project 5 General information Verse access Package Settings Main operational repository Verivery repository Vackage attributes Automation Project name * Demo Project 5 Organization * Order ID prefix * DM5 Order ID initial number 0							
Project name * Demo Project 5 Organization * Alin operational repository Project name * Organization * Order ID prefix * Order ID prefix * Order ID prefix * Order Settings	General information						
Package Settings Demo Project 5 Organization * Aain operational repository Delivery repository Package attributes DM5 Order ID prefix * Order Settings Order Settings	General information	General information					
Package Settings Organization * Iain operational repository Infopulse elivery repository Order ID prefix * Order ID prefix * Order ID initial number 0 0 utomation Package ID prefix * Order Settings Package ID prefix *	Users access	Project name *					
Organization * Iain operational repository Infopulse Order ID prefix * Order ID prefix * Of the settings		Demo Project 5					
Delivery repository Order ID prefix * Order ID initial number DM5 0 Order Settings Package ID prefix * Package ID initial number	Package Settings	Organization *					
Order ID prefix * Order ID initial number DM5 0 Order Settings Package ID prefix *	ain operational repository						
DM5 0 automation Package ID prefix * Package ID prefix * Package ID initial number	elivery repository						
Package ID prefix * Package ID initial number	ckage attributes						
Order Settings	utomation	DM5	0				
	Order Settings	Package ID prefix *	Package ID initial number				
	order Settings	DM5	0				
Order artifacts repository	rder artifacts repository						
Order types Start date End date	rder types	Start date	End date				
dd.MM.yyyy dd.MM.yyyy	orkflow	dd.MM.yyyy	dd.MM.yyyy				
Drder attributes							

Define individual prefixes for synthetic Order and Package IDs (e.g. ORDER-ABC-1, PKG-ABC-1). This differentiation is intended to visually separate orders from packages.

Also, you can set the initial number for synthetic Order and Package IDs. This may be useful if you have migrated to PACE Packager Hub and want to avoid conflicts with existing IDs in the previous system.



3.6 Business Rule Enhancements

PACE Packager Hub					? \$\$	(P 🧕
← Project: Demo F	Project 5				X a	ose settin
 General information Users access Package Settings Main operational repository Delivery repository Package attributes Automation Order Settings Order settings Order artifacts repository Order types Workflow Order attributes 	Business rules	g automated actions in the unattended m Status Enabled	ode. Trigger By time: 2 days	Last time when rule is run 10.05.2022 18:12:58	Edit Delete Disable Run now View rule matching Orders View history	

In this release, we continued to develop the **Business Rules** feature with aim of bringing more automation to the process flow and minimizing manual work.

The new **Run now** feature allows users to instantly run the rule, ignoring the configured rule trigger. This feature can be useful if you need to perform a one-time edit of multiple Orders right away. Please, note that this feature is available only for rules with the "By time" trigger.

	that currently meet the specified					
Order ID	Order Title	Order Type	Status	Creation Date	Updated Date	Actions
DM5-1	Test Order 1	 App Packaging 	Closed	10.05.2022 15:40:24	10.05.2022 18:12:58	\triangleright
DM5-2	Test Order 2	 App Packaging 	Canceled	10.05.2022 15:46:37	10.05.2022 18:12:58	\triangleright
DM5-3	Bug Fix Order 1	Bug Fix	Packaging	10.05.2022 15:47:12	10.05.2022 18:12:58	\triangleright
DM5-4	Support Request Order 1	 Support Request 	In Progress	10.05.2022 15:47:37	10.05.2022 18:12:58	\triangleright
DM5-5	Test Order 3	 App Packaging 	 Ready for Packaging 	10.05.2022 15:47:50	10.05.2022 18:12:58	\triangleright
DM5-6	Test Order 4	 App Packaging 	New	10.05.2022 15:48:34	10.05.2022 18:12:58	\triangleright
DM5-7	Test Order 5	 App Packaging 	 Internal Testing 	10.05.2022 15:48:45	10.05.2022 18:12:58	\triangleright



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The new View rule matching Orders feature shows a list of Orders that match the defined business rule conditions. This may be very useful when you create/update the rule conditions and want to test the rule. What is more, here you can run the rule against the specific Order from the list, clicking **Run now** in the **Actions** column.

3.7 Dashboard Customization

■ Dashboar	d	Table setti	ngs					×			
Team Workload		🛈 Use drag-n-dr	op to change the	sequence of elemen	ts.						Total: 3
ngineer	Active orders	'Team Work	load' table				1/3 view width	~	Wednes	Thursday	Friday
Victor Feschenko	2 orders	Active Orde	rs' table				1/3 view width	~	1 order	1 order	1 order
Completed Orders		'Due Dates'	table			For 4 days 💙	1/3 view width	~			Total: 2
		Completed	Orders' calendar	r		For 1 day For 2 days	2/3 view width	~	Orders (May, 202	22)	
Monday	Tuesday	Completed	Orders' table			For 3 days For 4 days	1/3 view width	*	2 orders		
					🖬 Save	For 5 days For 6 days For 7 days For 8 days	Cancel				
2	3	4	5	6	7	For 9 days For 10 days					

In addition to the appearance and location settings of the Dashboard widgets, you can set the number of days to be displayed in the **Due Dates** widget. The more Due Dates of Orders you can see, the better plan you can make.

3.8 Improvements

The new version of PACE Packager Hub includes the following improvements:

- Added support of new variables <%order-status%> and <%order-status-colorindicator%> that can be used in the email notifications.
- Message body is now stored in the Order History.
- Added the name of the invoked transition to the Order History. Now, information about the status change is presented in the 'invoked the transition <name of transition>' format.



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- Store the name of the run Business Rule in the Order History.
- Fixed the conflict of Business Rule names across the different projects.
- Added shorter period for message grouping in personal notification settings.
- Added the **Reply** button to the email notifications about the Orders Messages changes.
- Optimized space in email notifications. Now the information is presented in a compact form.
- Fixed issues with the customizing style of the **Body header** section of email notifications.
- Ability to open Orders and Packages in a new tab by clicking on the hyperlink in the

Order/Package ID column. If your table is not updated automatically, click (three dots in heading) > Table settings > **Refresh** button > **Save** button.

- The Priority attribute of Orders has obtained the color indicator. Now you can set custom colors for priority options in your projects.
- Added the ability to filter Orders by multiple statuses.
- In the widgets of Dashboard and Reporting, the 'Order Type' column is replaced with the more informative 'Order Title' one.
- Sort users in the Dashboard widget in alphabetical order.
- The Name of the Order Artifact is automatically filled in based on the selected file's name.
- When adding an Order Link, the search is also performed by the "Order ID" column.
- The 'Request' tab of Order Messages was renamed to 'Message'.
- Increased the timeout up to 72 hours to delete the queue of unsent email notifications.
- Increased the lifetime of the authorization tokens for the Engineer and Supervisor to 8 hours.
- Added the 'Updated Date' column for the Orders module.

