

Release Details of PAS 23.2

**Migration Notes**
The following bugfixes and features are subject to migration. Please perform the necessary migration tasks.

PAS Release

Component

Issues

Runtime Dependency

opcua-connector-service 1.8.1

7208

Bridge is moved from /etc/init.d to systemd. The startup of the Bridge will not start automatically after booting.

Bug	Description	Documentation Link
FAS-8789	Restart connection if internal state is "panic"	
FAS-8550	Log "worker exit" as info	
FAS-8536	Session restoration is failing (invalid channel)	
6071	With this release, the implementation of asynchronous tracing has been changed for Service and Custom service locations. It now uses the xUML Runtime API to manage the trace data. For this to work, services need to be compiled with xUML Compiler 7.12.0 or later, the executing xUML Runtime must be 2020.14 or later.	
FAS-8742	Implement unstable test server	

PAS 23.2.0.1 (15.12.2023)

Builder 8.3.1

Known issue:
On Windows, the Analyzer 8.3.0 can not be started via the start menu link resp. the executable. You have to use the Windows

 Contains xUML Runtime Version: [2023.5](#)

Bug	Description	Documentation Link
PAS-8773	StateId not saved	

PAS 23.2 (06.11.2023)

API Developer Portal 1.4.1

Bug	Description	Documentation Link
PAS-8389	Notification in Developer Portal linked to old UI	Notifications
PAS-8195	Contract creation wizard does not check if a client version is already retired	Creating a Contract Subscribing to a Private API
PAS-7867	JWT Token is not updated when Swagger UI is opened via deep link	Testing APIs
Improvement	Description	Documentation Link

On this Page:

- [PAS 23.2.0.2 \(29.01.2024\)](#)
 - [opcua-connector-service 1.8.1](#)
- [PAS 23.2.0.1 \(15.12.2023\)](#)
 - [Builder 8.3.1](#)
- [PAS 23.2 \(06.11.2023\)](#)
 - [API Developer Portal 1.4.1](#)
 - [API Gateway 8.7.0](#)
 - [API Management Backend 8.7.0](#)
 - [API Management Legacy UI 8.7.0](#)
 - [API Manager UI 1.0.3](#)
 - [Bridge 7.30.0](#)
 - [Builder 8.3.0](#)
 - [Designer Examples 23.2](#)
 - [Designer 4.6.0](#)
 - [asset-repository-service 1.4.1](#)
 - [deployment-wizard 4.2.0](#)
 - [file-storage 5.2.2](#)
 - [keycloak 22.0.4](#)
 - [mailer-service 3.1.5](#)
 - [messaging-service 4.3.5](#)
 - [opcua-connector-service 1.7.1](#)
 - [opcua-connector-service 1.7.2](#)
 - [opcua-connector-service 1.8.0](#)
 - [portal-app 2.10.9](#)
 - [reporting-service 3.2.4](#)
 - [sap-connector-service 4.0.0](#)
 - [sap-restifier 3.4.1](#)
 - [service-repository 6.6.3](#)
 - [toolbox 1.4.0](#)
 - [user-service 7.4.1](#)
 - [xUML Runtime 2023.5](#)
 - [xuml-dev-container-service 1.2.0](#)
 - [xuml-management-ui 1.9.3](#)
 - [xuml-tool 1.6.0](#)

PAS-7677	Client versions not supported in devportal	• Creating a Contract • Subscribing to a Private API
----------	--	---

API Gateway 8.7.0

Improvement	Description	Documentation Link
PAS-7630	Better error message on certificate issues	

API Management Backend 8.7.0

Bug	Description	Documentation Link
PAS-8197	Link in "Awaiting Approval" mail points to old API UI	• Notifications
PAS-6055	Organization deletion fails if not all client contracts are deleted	• Deleting an Organization
Improvement	Description	Documentation Link
PAS-6552	Changelog is missing fields [API Security Settings]	

API Management Legacy UI 8.7.0

Improvement	Description	Documentation Link
PAS-8118	Change documentation link	
PAS-7766	Deprecation Announcement: Show that a new manager ui is available	

API Manager UI 1.0.3

Bug	Description	Documentation Link
PAS-8392	Swagger editor renders error and is not usable	• Testing APIs
PAS-8342	JWT policy with forward claim information not functional	• JWT
PAS-8331	"Unpublished changes" still shown after successful registering	• Attaching Policies • Registering a Client
PAS-8325	Extend bounding box for hover area on plus button	• Working With the API Management
PAS-8323	Reset button for metrics view not working	• Metrics
PAS-8276	Transfer Quota Policy: Wrong default values in advanced configuration	• Transfer Quota Policy

PAS-8263	Wrong config sent when using rate or transfer limiting policy	• Rate Limiting Policy • Transfer Quota Policy
PAS-8258	Notification renderer only loads the first page (20 entries)	• Notifications
PAS-8248	Sorting in list view does not work	• Working With the API Management
PAS-8244	Caching Resources policy: Mark seconds field as mandatory	• Caching Resources Policy
PAS-8237	JDBC URL field does not validate correctly	• Basic Authentication Policy
PAS-8222	Display of list view not optimal when an API has a very long name	• Working With the API Management
PAS-8221	List view does not show organizations for clients and plans	• Working With the API Management
PAS-8199	Strange behavior when drag and drop yaml file in swagger	• API Settings
PAS-8155	List view for "My..." pages is not working	• Working With the API Management
PAS-8135	Documentation panel should be disabled on retired API	• Retiring an API
PAS-8110	Prefill organization field in wizard with current organization	• Creating an API
PAS-7936	Querying wrong endpoint for policies	• API Settings
PAS-7850	Remove shadow from icon in policy renderer	• Attaching Policies
PAS-7823	Unexpected behaviors when manipulating OpenAPI with editor	
PAS-7806	Cannot see all organizations in wizard drop down as super admin	• Creating an API
PAS-7760	Disable checkbox when no items present	• Caching Resources Policy
Improvement	Description	Documentation Link

PAS-8187	Add confirm checkbox and additional checks when deleting an API/Client/Plan/Org	• Deleting an API • Deleting a Client • Deleting an Organization • Deleting a Plan
PAS-8156	Align dialog layout with pas dialog layout	
PAS-8152	Improve layout of two column display in labels	• API Settings
PAS-8109	Retired API should print useful information to the user on contract page	• Retiring an API • API Settings
PAS-8027	Pre-Select organization if only one is present	• Creating an API
PAS-8007	Link button to active contracts should be disabled when no contracts available	• Retiring an API
PAS-8006	Change dialog color in case of trying to re-publish an unchanged API	• Publishing an API
PAS-7873	Add regex docu hint on all policies that use regex fields	• URL Rewriting • Regular Expression
PAS-7866	Publish/Retire should start loading spinner	• Publishing an API • Retiring an API
PAS-7782	Fix tooltip position of main card title	
PAS-7759	Create icons for policies	• Policies
PAS-7740	Policy tables should run validators manually if new row is added	• Attaching Policies
PAS-7481	Clicking on policy title should either bring you on the policy tab or directly to details	• API Settings
PAS-7439	Example box for URL Rewriting Policy	• URL Rewriting Policy
PAS-7402	Add link to documentation for policy details	• Policy Configuration
PAS-7293	Set correct active route links in main menu	• Working With the API Management
PAS-7087	Finalize font sizes and colors	
PAS-6664	Add more hints for active contracts	• Deleting a Plan
PAS-6611	Contracts not required when defining as public api	• API Types: Public vs. Private

PAS-6552	Changelog is missing fields [API Security Settings]	• API Settings
PAS-6418	Translation improvement	
PAS-6371	Contract state should be translated	• Handling Approval Requests • Contracts
PAS-4573	Show current role for a user in active organization	• Organization Settings
New Feature	Description	Documentation Link
PAS-7791	Integrate API specific OpenSearch dashboards	• API Settings • Client Settings
PAS-7721	Improve Keycloak Policy Form	• Keycloak OAuth Policy
PAS-7641	Swagger Try It Out in Manager UI	• API Settings • Testing APIs
PAS-7381	Configuration view for HTTP Security Policy	• HTTP Security Policy
PAS-6994	Configuration view for JWT Policy	• JWT Policy
PAS-6911	Notification renderer	• Notifications
PAS-5757	New improved changelog view	• API Settings

Bridge 7.30.0



Contains xUML Runtime Version: [2023.5](#)
 Contains Bridge API Version: 2.14.0
 Contains Roles Version: 1.28



Compatibility Hint

The Linux distribution must support systemd. The startup of the Bridge is moved from /etc/init.d to systemd. The startup commands changed. If the distribution does not support systemd then the Bridge will not start automatically after booting.

Improvement	Description	Documentation Link
PAS-8364	Update Apache httpd to version 2.4.58	
PAS-8302	xUML Runtime 2023.5	
PAS-7208	Use systemd to start the Bridge on Linux	
Bug	Description	Documentation Link
PAS-8183	PState RAW Data for Support not working	

Builder 8.3.0



Contains xUML Runtime Version: [2023.5](#)



Compatibility Hint

With this release, the implementation of asynchronous tracing has been changed for **Service** and **Custom** service locations. It now uses the xUML Runtime API to manage the trace data. For this to work, services need to be compiled with xUML Compiler 7.12.0 or later, the executing xUML Runtime must be 2020.14 or later. The **Bridge** service location still uses the old control port API.



Known Issues

On Windows, the Analyzer 8.3.0 can not be started via the start menu link resp. the executable. You have to use the Windows command file Analyzer.bat in <your installation directory>/bin.

Bug	Description	Documentation Link
PAS-8361	Update form-elements version in compiler	
PAS-8008	Remove obsolete prefetchedRecords from SQL Adapter	
Improvement	Description	Documentation Link
PAS-8141	Configure generated Angular-App at runtime	
PAS-7636	Remove <<Search Key>>	
PAS-6031	BPMN onUnhandledError logs insufficient details	
PAS-5300	Remove unused stereotypes	
New Feature	Description	Documentation Link
PAS-8056	Provide AuthenticationService in generated app	
PAS-7488	Pass the parentComponent to the childComponents and subforms	
PAS-6071	Analyzer should support xUML Runtime API for tracing	Connecting to an xUML Service

Designer Examples 23.2

Improvement	Description	Documentation Link
PAS-8464	Change REST adapter example to show how to access the adapter response	
PAS-8063	Extend MongoDB example to show queries with regex	
New Feature	Description	Documentation Link
PAS-8082	Create Designer library for pushing messages	
PAS-8043	Create an example for how to query MongoDB in a LIKE fashion using regex	MongoDBAdapter_CustomerData_Example.zip
PAS-7964	Create a new example for custom directives on form elements	Form_Custom_Directive_Example.zip
PAS-7870	Create a new example to show hash map handling with the Memory Adapter	MemoryAdapter_HashMap_Example.zip

PAS-7869	Create new example to show how to use decisions in activity diagrams	Activity_Decision_Example.zip
PAS-7868	Create new example to show loops in activity diagrams	Activity_Loop_Example.zip
PAS-7600	Provide Working example for xUML runtime API for querying PState objects	PersistentState_Query_Example.zip
PAS-7578	Add audio feature to openAI library	
PAS-7139	Create an OpenAI library for the designer	

Designer 4.6.0

Bug	Description	Documentation Link
PAS-8437	Shared SendMail Library can't be used due compiler errors	Adminstrating Libraries
PAS-8353	Designer tagged as wrong image type	Working With the Administration
PAS-8326	Hide the update Version button in the library administration	Adminstrating Libraries
PAS-8324	Problem opening models	Working with the Explorer
PAS-8321	Problem when validating and clearing cache	Controls Panel
PAS-8255	Interface operations with implementation possible	Modeling Data Structures
PAS-8253	Class attributes general property selections dialog	Changing the Attributes of Data Model Elements
PAS-8145	OpenAPI: Import definition fails because of servers variables	Creating an OpenAPI Connector
PAS-8144	Create interface inside interface fails	Modeling Data Structures
PAS-8130	Implementing a REST API is broken	API REST API
PAS-8108	Export folder: Operation Error	Folders Exporting and Importing Explorer Contents
PAS-8105	Asset drawer crashes if a project contains a library present in asset	Working With the Asset Drawer

PAS-8098	Boolean stereotype attributes with (true) default wrongly represented	
PAS-8083	Nested structures can disappear when being moved	• Modeling Data Structures
PAS-8080	Service panel - Interface created in a Class is not shown until refresh	• Modeling Data Structures
PAS-8079	Service panel - Wrong icon for Class	• Modeling Data Structures
PAS-8051	UI bug: Trigger Events	• Changing BPMN Element Attributes
PAS-7985	Missing tooltip in "Select Stereotype" dialog	• Attributes Panel
PAS-7983	OpenAPI: URL path segments with colon : are encoded wrongly	• OpenAPI 3
PAS-7978	Problematic deletion behavior for operations in execution diagram	• Working With the Execution Editor
PAS-7977	Problematic deletion behavior for operations in activity diagram	• Adding Operations in the Activity Editor
PAS-7972	Import of Library not displayed correctly	• Administrating Libraries
PAS-7963	Problem importing a service because of library can not be published to asset-repo/gitea	• Exporting and Importing Designer Contents
PAS-7948	Context menu option "Install version" not working as expected	• Updating Libraries
PAS-7923	Changing output parameter in activity diagram causes it to become null	• Working With the Activity Editor
PAS-7919	Library versions not selectable in the Shared namespace	• Administrating Libraries
PAS-7855	Add version is confusing	• Administrating Libraries
PAS-7832	Open documentation icon not working for libraries in administration	• Administrating Libraries
PAS-7818	Wrong rendered diagram elements	• Working with the BPMN Editor

PAS-7776	After library deletion from "Shared" namespace the version is still displayed	• Adminstrating Libraries
PAS-7771	Dependencies section cannot be opened for new "Shared" namespace	• Adminstrating Libraries
PAS-7770	New "Shared" namespace is not highlighted when clicked	• Adminstrating Libraries
PAS-7594	Asset drawer: Unnecessary scroll bar	• Working With the Asset Drawer
PAS-7561	Broken translation in create folder & create service dialog	• Folders • Services
PAS-7558	Libraries: Calling the documentation of a library element via context menu does not work	• Libraries • Accessing the Library's Documentation
PAS-7554	Libraries: Quick Action icon for calling the documentation of library elements is gone	• Libraries • Accessing the Library's Documentation
PAS-7544	Publish asset: Next button enabled although no file selected	• Adminstrating Libraries
PAS-7543	Publish Asset shows no library details	• Publishing Assets • Documenting Assets • Adminstrating Libraries
PAS-7492	Asset repo: Version menu is always empty	• Updating Libraries
PAS-7152	Selecting operation call in execution panel shows "Unknown operation" in attribute panel for name	• Changing the Attributes of Execution Elements
PAS-7054	Service is successfully deployed, but an error message appears that it was not added to the API management	• Deploying a Service
PAS-6723	Forms and Diagrams tabs opened in wrong service	
PAS-6290	Mapping relation creates a new property in collaborators mapping diagram	• Mapping Data Structures
PAS-5513	Re-deploy service as container show API Management errors	• Deploying a Service
PAS-5056	It is not possible to paste packages into the implementation folder.	• Service Panel • Implementation

PAS-4604	Library shows wrong tree in Service panel	Libraries Adding Libraries
PAS-3732	Remove scripts with CDN source	
Improvement	Description	Documentation Link
PAS-8284	Keep deployment notification open	Deploying a Service
PAS-8260	OpenAPI import fails: TypeError: Cannot read properties of undefined (reading 'type')	Creating an OpenAPI Connector
PAS-8181	Adjust the "send to compiler" for the url field	Data Table
PAS-8159	Make it possible to configure a link column in the data table dialog	Data Table
PAS-8142	Support tables in service description	Editing the Service Description
PAS-8020	Change the documentation link in the quick action menu	Accessing the Library's Documentation
PAS-7830	Make asset search available	Working With the Asset Drawer
PAS-7820	Library can be removed even though variables and operations are in use	Removing Assets Removing Libraries
PAS-7678	Provide a mechanism for parsing an asset to see the meta information directly when using it	Administrating Libraries
PAS-7227	Allow space in operation names	
PAS-7226	Add context menu item for adding a sub-operation	Adding Suboperations to Operations
New Feature	Description	Documentation Link
PAS-7810	Use search functionality of asset-repository-list	Working With the Asset Drawer
PAS-7140	Add sub-operations in mappings and activity from toolbar	Adding Operations to Mapping Relations Adding Operations in the Activity Editor
PAS-3991	Select in service panel the type of parameters and class properties	Attributes Panel

asset-repository-service 1.4.1

Bug	Description	Documentation Link
PAS-8419	Publish asset: Radio button enabled although no file selected	• Publishing Assets • Administrating Libraries
PAS-8385	Omit 401 for asset-repository-service when opening configuration	
PAS-7982	Existing assets unavailable in management dialog	• Adding Libraries
PAS-7790	Success screen in case of an error while publishing an asset	• Administrating Libraries
PAS-7789	Remove unnecessary scrollbar from "Publish Asset" wizard	• Publishing Assets • Administrating Libraries
PAS-7544	Publish asset: Next button enabled although no file selected	• Administrating Libraries
New Feature	Description	Documentation Link
PAS-8367	Integrate message push library	
PAS-7814	Provide a query parameter for sorting in the get endpoint	
PAS-7813	Adjust the GET Endpoint with query parameter for search with a string	
PAS-7812	Set a query parameter to the get for sorting	
PAS-7811	Provide a sorting mechanism for the asset list	
PAS-7808	Adjust the client library to make requests against the new api endpoint for search	
PAS-7807	Implement search functionality in the asset-list-component	• Working With the Asset Drawer
Improvement	Description	Documentation Link
PAS-8285	Add changed default libs mailer and openAI	
PAS-8269	asset-repository-ng module list item height	• Working With the Asset Drawer
PAS-7829	Make the publish default library process more generic	

deployment-wizard 4.2.0

Improvement	Description	Documentation Link
PAS-7865	Show Runtime selection box only when multiple Runtime versions available	• Working With the Deployment Wizard

file-storage 5.2.2

Improvement	Description	Documentation Link
PAS-8219	Create health routes for files/cdn controller	
PAS-5459	Enhance OpenAPI descriptor for file-storage	

keycloak 22.0.4

Bug	Description	Documentation Link
PAS-7650	Add missing roles for config changes on sap-connector-service	
Improvement	Description	Documentation Link
PAS-4145	update Keycloak to v22	• Working with the Identity Management

mailer-service 3.1.5

Bug	Description	Documentation Link
PAS-8377	Omit 404 when fetching config for mailer-service	
PAS-8261	Wrong service name in logger output for mailer-service	

messaging-service 4.3.5

Bug	Description	Documentation Link
PAS-8416	Response body contains an array where it shouldn't	• Testing APIs
PAS-8376	Replace beta library with official one	
PAS-8332	Invalid OpenAPI description provided	• Testing APIs
PAS-8247	404 when trying to fetch config for messaging-service	
New Feature	Description	Documentation Link
PAS-7874	Provide http endpoint for listening on requested topic	
PAS-7872	Provide http endpoint to push messages to	
PAS-7871	Support event streaming mechanism	

opcua-connector-service 1.7.1

Improvement	Description	Documentation Link
PAS-8060	JSON schema for OPCUA configuration	

opcua-connector-service 1.7.2

Bug	Description	Documentation Link
-----	-------------	--------------------

PAS-8413	Cannot read existing node	
PAS-8412	Exception in change-event of monitored item	
PAS-8356	Sub Worker are created even if old connections are not closed	
Improvement	Description	Documentation Link
PAS-8216	Cover state recovery & setup with tests	
PAS-8215	Exchange runtime information between worker and main session	

opcua-connector-service 1.8.0

Bug	Description	Documentation Link
PAS-8599	Connector-Service build is failing	
PAS-8540	Runtime exception on monitored item termination	
PAS-8512	Partially created connectors are not cleanup correctly	
PAS-8502	Param limit too short for long nodeids	
PAS-8476	CreateSubscriptionRequest should not run in parallel	
PAS-8435	Falsy opcua values are overridden by default value (introduced 1.7.2)	
Improvement	Description	Documentation Link
PAS-8526	Update dependency node-opcua 2.217.0	
PAS-8509	Improve status information (Part 1)	
PAS-8507	Distinguish logs from different client / session instances	

portal-app 2.10.9

Bug	Description	Documentation Link
PAS-8382	Pin app-themes	
PAS-8350	Wonky behavior in service details	• Controlling Containerized xUML Services • Changing the Log Level of a Containerized xUML Service
PAS-8348	Dialog should close after save	• Changing the Log Level of a Docker Container
PAS-8280	API legacy UI only accessible via tile view	• Getting Started With Scheer PAS
PAS-8201	Filter menu does not appear when network is slow	• Working With the Administration
PAS-8194	Logging URL for nestjs services broken	• Changing the Log Level of a Workload

PAS-8182	Testing APIs via Swagger UI is not possible anymore	• Controlling Containerized xUML Services
PAS-8122	Creating logging URL does not point to specific service	
New Feature	Description	Documentation Link
PAS-8062	Create simple visualization for reading current shared license data	• Working With the Administration
PAS-6843	Enable configuration UI for nestJS services	• Controlling Docker Container
PAS-4302	Add ability to configure Angular-Services at runtime	
Improvement	Description	Documentation Link
PAS-7865	Show Runtime selection box only when multiple Runtime versions available	• Working With the Deployment Wizard
PAS-7863	Replace default target for new API Manager UI	• Getting Started With Scheer PAS
PAS-6234	Tooltips for tile icons in Portal	• Getting Started With Scheer PAS

reporting-service 3.2.4

Bug	Description	Documentation Link
PAS-8379	Omit 404 when fetching config for reporting-service	
PAS-8257	Wrong service name in logger output	
Improvement	Description	Documentation Link
PAS-6272	Create more meaningful DTO on input data for generating documents	

sap-connector-service 4.0.0

Improvement	Description	Documentation Link
PAS-7635	Support for redis sentinel config	
PAS-7369	Executing API requests in unknown system should return 404	
PAS-7352	Rewrite routes for a more meaningful API usage	
PAS-7284	Finalize porting sap-connector-service to NestJS tasks	
PAS-7200	Handling errors and cover by jest tests	
PAS-7172	Performance improvement for searching cached SAP functions	
PAS-6148	SAP Connector logging functionality	

PAS-6147	User-forced SAP function data cache update	
PAS-6146	SAP function metadata retrieval	
PAS-6144	SAP function list retrieval	
PAS-6141	SAP connection management	
PAS-6140	SAP function caching	
PAS-6137	Implement SAP access via SAP NW RFC libraries	
PAS-6135	Setup GitLab new repository SAP Connector Service	
Bug	Description	Documentation Link
PAS-7370	Services crashes when rebuilding cache on log level below warn	
New Feature	Description	Documentation Link
PAS-7285	Secure API routes	
PAS-7255	Deployment configuration for cluster setup	
PAS-7068	Cache target should be set to Redis	
PAS-7067	Provide schema for sap-connector-service configuration	
PAS-6220	Turn the sap-connector-service into a nest.js service	

sap-restifier 3.4.1

New Feature	Description	Documentation Link
PAS-8427	Update sap-restifier image to use newer node version	

service-repository 6.6.3

Bug	Description	Documentation Link
PAS-8415	Base images without tag leads to error of runtime list	
PAS-8239	Wrong internal hostname for xuml control api	
PAS-7880	Container deployment reset the config to default after re-deployment	
PAS-7548	Filter out annotation	
Improvement	Description	Documentation Link
PAS-8111	Enforce service type on Kubernetes even when wrong request data sent	
PAS-8088	Add startup check for required docker credentials	
PAS-7878	Creating logging url should support query for type	
PAS-6489	Move container labels to annotations	Controlling Kubernetes Workloads
PAS-5942	use the restart algorithm provided by the operator	
New Feature	Description	Documentation Link

PAS-8061	Create endpoint for reading shared xuml license	• Working With the Administration
PAS-7335	Provide schema for service-repository configuration	

toolbox 1.4.0

New Feature	Description	Documentation Link
PAS-8133	New Backup & Restore Scripts for Kubernetes and Docker	

user-service 7.4.1

Bug	Description	Documentation Link
PAS-7632	user-service-nestjs spams deprecation warnings	
New Feature	Description	Documentation Link
PAS-7332	Provide schema for user-service configuration	
PAS-6928	Provide schema for user-service configuration	

xUML Runtime 2023.5

Improvement	Description	Documentation Link
PAS-8270	libcurl 8.4.0	
PAS-8126	Write cURL OPT debug logs to one log message	
New Feature	Description	Documentation Link
PAS-6981	Apache Kafka Listener Service	
Bug	Description	Documentation Link
PAS-8236	HTTP Services: cannot send response body along with HTTP 202	
PAS-7656	jsonToClass(): Float parsing is broken for locales where decimal separator is not ".", with JVM started.	

xuml-dev-container-service 1.2.0

Improvement	Description	Documentation Link
PAS-8040	Relocate license path for production usage	

xuml-management-ui 1.9.3

Bug	Description	Documentation Link
PAS-8350	Wonky behavior in service details	• Controlling Containerized xUML Services • Changing the Log Level of a Containerized xUML Service

New Feature	Description	Documentation Link
PAS-8062	Create simple visualization for reading current shared license data	Working With the Administration
Improvement	Description	Documentation Link
PAS-7863	Replace default target for new API Manager UI	Getting Started With Scheer PAS
PAS-6846	Adjust wording for xuml-management-ui	

xuml-tool 1.6.0

New Feature	Description	Documentation Link
PAS-8242	Option to keep files from being overwritten on (re-)deployment	xUML Runtime Tool
PAS-8241	Option to explicitly name the deployment directory	xUML Runtime Tool
PAS-8238	When deploying a service, always write a file containing service name into the service directory	xUML Runtime Tool