

Builder

Dependencies to xUML Runtime and Migration Notes

The following bugfixes and features depend on a new version of the xUML Runtime or are subject to migration. Please install the Required Runtime version and/or perform the necessary migration tasks.

Please consider the [xUML Runtime dependencies of Builder 6](#), if you upgrade from such a version.

Release Notes of Builder Version 7.28

B	Builder	xUML	Issues	Runtime Dependency
		Runtime		

 Contains xUML Runtime Version: 2022.12

Bug	Description	Key	Resolution
PAS-5862	Cannot use connector type in BPMN service module	As a consequence, the older data will be ignored, when such search key	
PAS-5861	PAS_Platform.Auth.AuthService missing from compiled repository	Properties are used for filtering or sorting	
PAS-5766	Compiler responds with code 500 instead of a compile result		
7.18.0 PAS-5675	2021.9 PAS-Compiler normalizes embedded white space in settings	Builder 7.18.0 and Runtime 2021.9 are incompatible regarding the new	
PAS-5519	Angular 1948 build tasks are wrongly cached	flag Startup Must Succeed (fixed in Builder 7.20.0). The flag will be	
Improvement	Description	ignored.	
PAS-5763	2025.7 Stop compile process if a problem in heap memory exception appears	Import from an older version will produce	
PAS-5707	Update README file of general app projects		

Release Notes of Builder Version 7.27

Builder 7.27.0 (05.12.2022)

 Contains xUML Runtime Version: 2022.11

		6505	SOAP services. With REST services the feature will remain inactive
Bug		Description	Documentation Link
PAS-5476	2025.4	Service Tasklets stuck	Older xUML Runtimes will not start if the feature is in use.
PAS-5433		Send unprocessed mapping elements to compiler	
PAS-5341		xUML Runtime API cannot distinguish multiple schedulers within a service	Older xUML Runtimes will not start if the feature is in use.
PAS-5277		Error when deploying or clearing cache	
PAS-5265	2020.15	Deploy service must handle 404	
PAS-5236		Action tagged value is not derived from called operation name	With older xUML Runtimes, a warning will be logged on startup. The fallback will have no effect.
PAS-5161		Some files stays open forever	
PAS-5145	2020.16	Rule check does not work for plain events	With older xUML Runtimes, a warning will be logged on startup. The fallback will have no effect.
PAS-5138		Friendly setting ids missing from libraries	
PAS-5038	2020.13	Errors in MemoryAdapter	Older xUML Runtimes will not start if the feature is in use.
PAS-5005		WARN No task factory found for 'project.json'	
PAS-4724		Warning when creating a mapping with an array	
PAS-4722		Conditional mapping is not possible	With older xUML Runtimes, a warning will be logged on startup. The fallback will have no effect.
PAS-4646		Analyzer Identifier does not end with a number	Older xUML Runtimes will not start if the feature is in use.

Related Pages:

- [Builder 6 Release Notes](#)
- [Builder 5 Release Notes](#)

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PAS-4616	Can not remove BPMN instances when in a Receive Task	With older xUML Runtimes, a warning will be logged on startup. The	
PAS-4587	Escape special characters in form labels	Endpoints will return 404.	
PAS-4544	Analyzer Regression Tests - Can't start service with umiauts in name		
PAS-4542	Compiler changes PUT to POST for FTP, SFTP, FTPS	With older xUML Runtimes, a warning will be logged on startup. The	
PAS-3673	Confusion between built-in and custom methods in case of a postfix-application or further methods	Endpoints will return 404.	
Improvement	Description	Documentation Link	
	2020.12 BUIL-6440	Older xUML Runtimes will ignore the settings and display a startup warning.	
PAS-4660	Add JWT Token adapter to Analyzer	Older xUML Runtimes will always return null.	
PAS-4659	Add Apache Kafka Producer adapter to Analyzer		
PAS-3603	Builder: migrate build pipeline to gitlab		
PAS-3406	Add keycloak client id in security settings	With older xUML Runtimes, the HTTP header map items will always be	
New Feature	Description	Documentation Link	
	6420	null.	
PAS-4871	Access to current index in iteration blocks	Older xUML Runtimes will ignore the settings but may display a startup warning.	Iterations
PAS-4693	Create AngularCompileTask that compiles the forms in a library		
PAS-4682	Create library xUml	With older xUML Runtimes, the HTTP header map items will always be	
PAS-4691	Execute ResourceTask to get Irep file for compiled libraries		
PAS-4690	Create library descriptor		
PAS-4689	Bundle together the xlib file	Older xUML Runtimes will ignore the settings but may display a startup warning.	
PAS-4688	Add new rest endpoint for the compiled library		
PAS-4686	Send E2E LibraryClass to older xUML Runtimes	Older xUML Runtimes will ignore the settings and display a startup warning.	
PAS-4648	Add endpoint for exporting compiler source files		
PAS-3324	Use keycloak angular in generated app	Builder is compatible with Magic Draw 18.0 Service Pack 7.	
PAS-2985	Authorization checks on compiled xuml service		

Release Notes of Builder Version 7.26

Builder 7.26.1 (01.09.2022)

7.10.1	2020.8		In this version of the Builder, services cannot be started in the xUML Runtime
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7.8.0	2020.1	BUIL-6213	Older xUML Runtimes will return an error when trying to access the xUML Runtime API.
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7.5.0	2019.4	BUIL-	The generated internal components require RUNTIME support
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 Contains xUML Runtime Version: [2022.11](#)

	2019.5	BUIL-6046	If the functionality is used, older RUNTIME versions will refuse to start.
Bug	Description		
PAS-4587	Escape special characters in form labels	BUIL-6073	If the functionality is used, older RUNTIME versions will refuse to start.

Builder 7.26.0 (03.08.2022)

		BUIL-	If the functionality is used, older RUNTIME versions will refuse to start.
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 Contains xUML Runtime Version: [2022.7](#)

		6122		
Bug	Description		Documentation Link	
PAS-4484	Analyzer does not know persistent state when Favor Events/Favor Objects: RUNTIMES			
PAS-4468	Flat File Adapter Compose not working properly which option is chosen.	6054	Flat File Adapter	
PAS-4175	Error if two out pins with same name but different types are connected to persisted properties			
7.3.0	2019.1	BUIL-	odata importer: Add Etag as RESTParameter in header - needs RUN-	
PAS-3976	Unknown option: '--act'	5901	2418 - REST Header parameter should be ignored if not set.	

- [Release Notes of Builder Version 7.17](#)
 - [Builder 7.17.0 \(31.08.2021\)](#)
- [Release Notes of Builder Version 7.16](#)
 - [Builder 7.16.0 \(31.07.2021\)](#)
- [Release Notes of Builder Version 7.15](#)
 - [Builder 7.15.1 \(16.07.2021\)](#)
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- [Release Notes of Builder Version 7.14](#)
 - [Builder 7.14.0 \(30.05.2021\)](#)
- [Release Notes of Builder Version 7.13](#)
 - [Builder 7.13.0 \(04.05.2021\)](#)
- [Release Notes of Builder Version 7.12](#)
 - [Builder 7.12.0 \(31.03.2021\)](#)
- [Release Notes of Builder Version 7.11](#)
 - [Builder 7.11.2 \(18.12.2020\)](#)
 - [Builder 7.11.1 \(28.08.2020\)](#)
 - [Builder 7.11.0 \(30.06.2020\)](#)
- [Release Notes of Builder Version 7.10](#)
 - [Builder 7.10.1 \(20.05.2020\)](#)
 - [Builder 7.10.0 \(20.05.2020\)](#)
- [Release Notes of Builder Version 7.9](#)
 - [Builder 7.9.0 \(17.04.2020\)](#)
- [Release Notes of Builder Version 7.8](#)
 - [Builder 7.8.0 \(31.03.2020\)](#)
- [Release Notes of Builder Version 7.7](#)
 - [Builder 7.7.2 \(16.01.2020\)](#)
 - [Builder 7.7.1 \(10.01.2020\)](#)
 - [Builder 7.7.0 \(19.12.2019\)](#)
- [Release Notes of Builder Version 7.6](#)
 - [Builder 7.6.1 \(30.10.2019\)](#)
 - [Builder 7.6.0 \(15.10.2019\)](#)
- [Release Notes of Builder Version 7.5](#)
 - [Builder 7.5.1 \(02.07.2019\)](#)
 - [Builder 7.5.0 \(20.06.2019\)](#)
- [Release Notes of Builder Version 7.4](#)
 - [Builder 7.4.1 \(26.03.2019\)](#)
 - [Builder 7.4.0 \(05.03.2019\)](#)

New Feature	Description	Documentation Link
PAS-4309	Generate instance overview with roles	As of Builder 6.0.29 / 7.2.0, the Compiler reports an error, if a local variable is re-declared within Action Script. You will need to change your implementation, if the Compiler points you to a implementation like this.
PAS-4227	Generic security mechanism in xuml	
PAS-4097	Handle get attribute of object flow using transformation	Refer to Compiler Reports Error: Local Variables re-declared for more information .
PAS-4082	Apache Kafka producer for the Designer	Apache Kafka Producer Adapter
PAS-4071	Apache Kafka Producer Adapter (Compiler)	
PAS-3323	JWT token Adapter	Compiler: Allow static path but dynamic file
PAS-3010	Call service repository to start a dev container	
PAS-2938	Compile the forms as libraries for pro code development.	- Controls Panel - Pro-Code Development - Changing the Generated Angular - Developing Custom Forms in a Library
	2018.5 2018.4 2018.3	5891 5890 5889
Improvement	Description	Documentation Link
PAS-4316	Use same authorizations.json files in angular as xuml	
PAS-4251	Remove cast value() base type operations from explorer	
PAS-4204	Allow empty string as default value for execution locals	Modeling Execution
PAS-4123	Npm install on dev container if package.json changed	
PAS-4121	Stop serve if package.json changed	
PAS-4118	Remove compiler project and dev container after some unused time	
PAS-4088	Extend the security checks for instance list usage permission	
PAS-4087	Check permissions for the instance list rest call	
PAS-4086	Create service interface to send bpmn with roles	
PAS-4083	Use actions of list on the application overview	
PAS-4061	Configurable HTTP header size limit	
PAS-3996	Angular CLI caching makes it difficult to develop	

- Release Notes of Builder Version 7.3
 - Builder 7.3.1 (11.02.2019)
 - Builder 7.3.0 (01.02.2019)
- Release Notes of Builder Version 7.2
 - Builder 7.2.1 (22.11.2018)
 - Builder 7.2.0 (09.11.2018)
- Release Notes of Builder Version 7.1
 - Builder 7.1.0 (11.10.2018)
- Release Notes of Builder Version 7.0
 - Builder 7.0.0 (12.07.2018)
 - Builder 7.0.0-rc1 (22.11.2018)
 - Builder 7.0.0-beta4 (31.05.2018)
 - Builder 7.0.0-beta3 (30.04.2018)
 - Builder 7.0.0-beta2 (01.03.2018)
 - Builder 7.0.0-beta1 (18.12.2017)

Release Notes of Builder Version 7.25

Builder 7.25.2 (21.07.2022)



Contains xUML Runtime Version: [2022.6](#)

Improvement	Description	Documentation Link
PAS-4385	Set a default header size limit so it shows in the settings	
PAS-4061	Configurable HTTP header size limit	

Builder 7.25.1 (24.06.2022)



Contains xUML Runtime Version: [2022.5](#)

New Feature	Description	Documentation Link
PAS-4218	Generate stereotype specific extra pins only when they're used	
Bug	Description	Documentation Link
PAS-4195	Make sure adapterResponse pin works while compiling	
Improvement	Description	Documentation Link
PAS-4181	Define extra stereotype property for extra parameters in the rest adapter	

Builder 7.25.0 (02.06.2022)



Contains xUML Runtime Version: [2022.5](#)

Bug	Description	Documentation Link
PAS-3954	Wrong base path on container deployment	
PAS-3941	forbid to create instances of type Any	
PAS-3868	Regression tests: test case count is wrong for ParallelRequest tests	
PAS-3861	REST input body model ignores External Name settings	
PAS-3836	RegTests: Some "ParallelRequests" tests suddenly abort the testrun	
PAS-3832	Cannot use classToJSON in mapping diagram without providing composer options	
PAS-3816	Usage of "remove" action with Filesystem adapter does not compile	
PAS-3787	Action script errors do not disappear	
PAS-3766	Cannot use literal as input for Memory adapter	
PAS-3730	Service crashes when calculating with foreach index	
PAS-3665	Service using getCompositeXYZ() won't start	
PAS-1733	Updated JavaMail library to 2.6.2 in example	
Improvement	Description	Documentation Link
PAS-3967	Allow empty string as default value for properties	
PAS-3734	Using tabulator and \n in labels leads to compilation error	
PAS-3687	Create an example for blobs in REST interface	
PAS-3684	Extend PStatePurchaseOrder example with <<PersistentStateControl>> adapter	
PAS-3662	Define dependencies between stereotypes	
PAS-3568	Use modified date to check cache	
PAS-1176	Generated app to angular 13	
New Feature	Description	Documentation Link
PAS-3782	Send inherited stereotype properties to designer	
PAS-3689	Designer Incoming Service REST	
PAS-3411	Send enumeration types in the designer	

Release Notes of Builder Version 7.24

Builder 7.24.0 (08.04.2022)



Contains xUML Runtime Version: [2022.3](#)

Improvement	Description	Documentation Link
PAS-3581	Persistent State Workerlimit	
PAS-3547	Create empty UI resource when angular is disabled	
PAS-3436	xuml-compiler-service: use up to 4 GB for Node.js	
PAS-3435	Remove xuml-base and PASPlatformCommunication_lib documentation	
PAS-3415	Analyzer should support PersistentStateControl	
PAS-3391	Removed Any.classToExtendedJSON	
PAS-3358	Missing String Operation in Analyzer	
PAS-3314	Fix/Update cypress test for generated app (PAS 21.2.2)	
PAS-3003	Enable base type operations with complex parameter	
PAS-3002	Enable basic operations (getServiceContext, ...)	
PAS-3001	Add more stereotypes	
PAS-2973	Stereotypes for properties <<E2EAttribute>>	
PAS-2792	Compile SAP Adapter	
PAS-1540	Introduce categories to generated Swagger UI	
Bug	Description	Documentation Link
PAS-3464	"File not found" exception on EDIFACT import	
PAS-3424	Multiple control flows from same CallOperationNode in generated mapping	
PAS-3381	Unhandled signal error in Designer service	
PAS-3376	Main.js is generated with id when building angular application with watch	
PAS-3366	GET BPMN instances is slow	
PAS-3354	Intermediate event states are missing with GET /{id}	
PAS-3319	A sequence of more than one item is not allowed as the result of a call to util:getOriginalElement#1 ("", "")	
PAS-3317	FileSystemAdapter wizard doesn't show parameter dialog for removeRecursive action	
PAS-3297	Cant deploy project if empty form group element	
PAS-3295	Return better error when angular build fails	
PAS-3136	Compiler error after clean all for models with indirect library dependencies	
PAS-3026	avoid Writing error element to ../NameError.xml	
New Feature	Description	Documentation Link
PAS-3360	Create a _meta type for table	
PAS-2894	Compile <<FlatFileAdapter>> operations	

Release Notes of Builder Version 7.23

Builder 7.23.0 (03.03.2022)

Internal release.

Release Notes of Builder Version 7.22

Builder 7.22.2 (18.02.2022)



Contains xUML Runtime Version: [2022.1](#)

Bug	Description
PAS-3234	Instance table: filtering non string values: server error
Improvement	Description
PAS-3220	Enable the refresh button on the instance table

Builder 7.22.1 (15.02.2022)



Contains xUML Runtime Version: [2022.1](#)

Bug	Description
PAS-3218	REST Interface GET / returns not full instance data

Builder 7.22.0 (14.02.2022)



Contains xUML Runtime Version: [2022.1](#)



Compatibility Hint

If a persisted class property is defined as to be a search key, and there is already older persisted data present in the database, the stereotype **SearchKey** is **not** set retrospectively for the older data. This behavior may improve in the future.
As consequence, the older data will be ignored, when such search key properties are used for filtering or sorting.

Bug	Description	Documentation
PAS-2912	Pins on <<SAPIDocParser>> behavior action nodes result in compile errors	
PAS-2952	Pin "anyObjectFlow" on <<FlatFileAdapter>> action node results in compile errors	
PAS-2988	Timer Event causes compile error when no timeout property is set	
PAS-3035	Array as in/return parameter on execution operations cause compile errors	
New Feature	Description	
PAS-2532	New global operations for handling UUIDs	
PAS-2608	PersistentStateControl adapter: support "skip"	
PAS-2617	Send Search key stereotype to designer	
PAS-2666	Compile<<FileSystemAdapter>> operations from designer base components package	
PAS-2712	Compile<<MemoryAdapter>> operations from designer base components package	

PAS-2748	Compile <<Logger>> operations from designer base components package	
PAS-2929	Set Transformation	
PAS-3012	Use serverside processing event from datatable in instance list	
Improvement	Description	
PAS-456	BPMN POST request filter on persisted properties	
PAS-1452	Support Keycloak OAuth2 authentication for SOAP tracing	
PAS-2609	PersistentStateControl adapter: sorting queried objects by search keys	
PAS-2814	Flag to not generate base element for MD	
PAS-2831	Handle type references from one stereotype to another	
PAS-2862	Remove Array from Base Types	
PAS-2968	Store class, array, blob as <<External>> PS properties	
PAS-2989	Sequence flows to boundary events can be modeled and will be compiled	
PAS-3062	Create condition types in the PAS Form Elements library	
PAS-3076	Support Keycloak OAuth2 authentication for asynchronous trace	
PAS-3118	Need an option to send instance list with externals	

Release Notes of Builder Version 7.21

Builder 7.21.0 (19.01.2022)



Contains xUML Runtime Version: [2021.10](#)

Bug	Description
PAS-2942	No setting is generated for persisted properties
PAS-2898	Instance list should not reload before finish
Improvement	Description
PAS-2634	Move generated process and task in main project
PAS-2633	Move generated forms in main project

Release Notes of Builder Version 7.20

Builder 7.20.2 (18.01.2022)



Contains xUML Runtime Version: [2021.10](#)

Improvement	Description
PAS-2931	Use xUML PAS Platform 1.1.0
Bug	Description
PAS-2927	PAS user name must be spelled firstname

Builder 7.20.1

Internal release.

Builder 7.20.0 (17.12.2021)



Contains xUML Runtime Version: [2021.10](#)

Bug	Description	Documentation Link
PAS-2783	New lines should be escaped with \n in translations	
PAS-2771	Change to external Persistent State DB does not work	
PAS-2747	UI stops in processing step	
PAS-2623	Empty BPMN returns validation errors	
PAS-1498	REST and MongoDB Adapters do not reject incorrect alias type	
Improvement	Description	Documentation Link
PAS-2688	Order stereotype properties	
PAS-2615	Use generic template for pins	
PAS-2613	Use generic template for callOperations	
PAS-2590	BPMN Get request sorting options	
PAS-2521	Provide some libraries from the compiler	
PAS-452	BPMN Get request filter on metadata	
New Feature	Description	Documentation Link
PAS-2538	Render base href as relative path	
PAS-2517	Enable User Preferences in angular app	
PAS-2498	Show generic operation for MongoDB adapter in the base components	
PAS-2490	Show datetime base components and operations	
PAS-2489	Show Mongo stereotypes and base component	
PAS-2484	Generate rest operations for ServerSide executions	
PAS-2438	Retrieve user info from user service instead of headers	
PAS-1948	Abort startup if startup activity fails	

Release Notes of Builder Version 7.19

Builder 7.19.1 (07.12.2021)



Contains xUML Runtime Version: [2021.9](#)

Bug	Description
PAS-2625	Error while parsing does not go away even after fixing
PAS-2622	All strings must be escaped when generating json

Builder 7.19.0 (26.11.2021)



Contains xUML Runtime Version: [2021.9](#)

Bug	Description	Documentation Link
PAS-2562	Foreach array element buffer node can be uninitialized	
PAS-2549	Wrong generated translations for complex properties	
PAS-2418	Empty array of columnModel is turned to null	
PAS-2230	Refresh goes on after quitting instance list	
Improvement	Description	Documentation Link
PAS-2475	Remove traces of property searchColumn	
PAS-2475	Improve compiler error messages for errors in action scripts	
PAS-2265	compile default values for local variables	
PAS-2086	Provide translation files by angular compiler	
New Feature	Description	Documentation Link
PAS-2482	New <<MongoDBOperation>> stereotype required	
PAS-2437	Generate process meta info rest call	
PAS-2408	add base components in the models for designer	
PAS-2407	Call action stereotypes	
PAS-2370	Handle server side processing form element	
PAS-2285	add libraries forms in the form service	
PAS-2283	Import angular modules of procode libraries	
PAS-1860	Support pro code forms for sub form	
PAS-1646	send stereotypes to designer	
PAS-444	Support pro code forms for a user task	

Release Notes of Builder Version 7.18

Builder 7.18.0 (30.10.2021)



Contains xUML Runtime Version: [2021.9](#)



Known Issues

Issue	Comment
PAS-1948	Builder 7.18.0 and Runtime 2021.9 are incompatible regarding the new flag Start up Must Succeed (fixed in Builder 7.20.0). The flag will be ignored.

Bug	Description	Documentation Link
PAS-2323	Multiple instances created on start event	
PAS-2270	NoResponseBody is missing RESTError stereotype	
PAS-2256	Unexpected end of file from server	
PAS-2254	Mapping diagram with arrays as input/output produces errors	
PAS-2156	Hieroglyphs in Analyzer installer text	
PAS-2131	MongoDB Alias "hosts" property gets lost on import into xUML Service	
PAS-2111	REST operation returning Blob is imported without out pin	
PAS-2103	Ignore log files when exporting angular application	
PAS-2102	Bug with get data while routing to same user-task	
PAS-2089	Array tagged values are not exported/imported with libraries	
PAS-2057	build:all script should not have task without forms	
PAS-2043	Warning displayed when re-importing a changed Swagger yaml	
PAS-2029	Watch-all does not work correctly with subforms	
PAS-1998	AliasReader does not work with "jsonWriteTypeDiscriminator" from REST Alias	
PAS-1934	Timer is not created correctly for start events	
PAS-1387	Buttons are not reseted after used in execution	
PAS-1382	Long service task operation does not switch to processing view	
PAS-892	Throw error if alias is missing on MongoDB adapter	
Improvement	Description	Documentation Link
PAS-2189	Support adapters on execution and mapping	
PAS-2152	Neutral color for completed instance toast message	
PAS-2109	Add base type operation to ClassOperation example	
PAS-2074	Use the hostname and client of the current system in README.md	
PAS-2062	add line/statement number in ActionScript FUNMISGE* compile errors	
PAS-2035	Show the task name in bold in processing view	
PAS-2030	Enable simple base type operations for Designer	
PAS-1999	Generate data model operations without implementation	
PAS-1980	Do not show start option if user/role is not permitted to start the process	
PAS-1947	Handle nested classes/interface in the datamodel	
PAS-1630	create links via npm commands	
PAS-1588	Check for spaces in names and report compiler error	
PAS-1563	Compiler warning: Found unused output object "rowsAffected" on MongoDB adapter	
PAS-1135	Use single daemon process for node.js commands	
PAS-488	Add 'ignoreHTTPErrors' to URL & SOAP Aliases	

PAS-461	Optimize repository size: get rid of htdocs/<service>-main.zip	
New Feature	Description	Documentation Link
PAS-2039	Add a state counter property in persisted	
PAS-1948	Abort startup if startup activity fails	
PAS-1835	Add deployment time in the traces	
PAS-1813	Download libraries in new format	
PAS-1650	Handle simple base operations used in activity diagram	
PAS-1323	Compile simple Activity Diagram	
PAS-489	Log additional keys (composite name, transaction ID) to custom channel	
PAS-442	Investigate up-to-date and cache possibilities for AngularInstallDependenciesTask and AngularBuildTask	

Release Notes of Builder Version 7.17

Builder 7.17.0 (31.08.2021)



Contains xUML Runtime Version: [2021.8](#)

Bug	Description
PAS-1848	Replace dashes and spaces in project name when using in angular file/project names
PAS-1767	Angular build is blocked by another build with timeout
PAS-1762	Angular process cleanup issue
PAS-1693	Error deploying a project - Type 'Timeout' is not assignable to type 'number'
PAS-1681	Subproject watcher is missing package.json scripts
PAS-1604	Compiler crash if REST Adapter has multiple "AdapterResponse" outputs
PAS-1550	Total instance count on the instance list is wrong
PAS-1395	Service version number breaks compilation
Sub-task	Description
PAS-1764	uml.helper changes
PAS-1719	uml.helper changes
PAS-1700	uml.helper changes
PAS-1694	uml.helper changes: add xuml:id attribute on printed uml elements when possible
New Feature	Description
PAS-1672	Refactor id attribute from designer element with xuml namespace
PAS-1649	Only compatible base types operations should be send to designer
PAS-1647	Json example for REST Stereotypes
PAS-1467	Handle Base types operations in mapping/execution
PAS-1385	Make base type operations accessible in the mapping diagram
PAS-1368	Json structure for Activity Diagram

Improvement	Description
PAS-1631	Better error toast message
PAS-1627	Return count for all roles
PAS-1398	Clear angular workspace from removed element
PAS-455	Go back to instance list in case of 404 or status Done

Release Notes of Builder Version 7.16

Builder 7.16.0 (31.07.2021)



Contains xUML Runtime Version: [2021.7](#)



The following bugfixes and features have dependencies or are subject to migration.

Issue	Comment
PAS-418	Reimporting OpenAPI over an import from an older version will produce orphan proxies.
PAS-898	Ordering of HTTP header roles (incoming and outgoing) has been fixed. This may influence setting names. If header roles have been changed via settings, we advise to check if they are still correct.

Bug	Description	Documentation Link
PAS-418	OpenAPI Importer: operation xmi:id is not stable on re-import	
PAS-898	HTTP header handling rules regarding composite/REST service not consistent	
PAS-1332	Calling service instance via REST responds an empty object	
PAS-1344	Instance List is always empty	
PAS-1370	Role names are restricted to action script syntax	
PAS-1519	JSON userManager example throws error at startup in embedded Runtime	
PAS-1542	Export repository will always fail if no form is selected in subform element	
PAS-1553	Deploy service is not working due to error in generated app	
PAS-1575	Null pointer exception can come if library with base components	
PAS-1616	Update "content-type" to lower case in UIFileUpload example	
Improvement	Description	Documentation Link
PAS-454	Persisted state database configuration	
PAS-656	Add the count of instances in the roles buttons	
PAS-941	Improve "progress view" in designer application	

PAS-1194	Better errors when an operation is not found during WithReferenceTask	
PAS-1220	ResolveIdsTask should handle idref with #	
PAS-1221	Use idref and constants in xslt with base components	
PAS-1223	Generic Copy/Substitution task from template project	
PAS-1274	Interface XUMLogFilter trx_level faulty	
PAS-1294	Avoid unwanted warning messages	
PAS-1336	generate .gitignore, .npmrc, .dockerfile file to the compiled angular application	
PAS-1375	Create proxy conf for local development	
PAS-1401	Watcher on Subprojects	
PAS-1503	Generate all SQL aliases connected to the component	
PAS-1529	Run Linux Analyzer without changing start script	Installing the Analyzer on Linux
New Feature	Description	Documentation Link
PAS-924	Define json for foreach index element	
PAS-925	Compile mapping foreach index element	
PAS-969	Show the configured columns in the instance table on runtime	
PAS-1279	Link a subform library in the main form and show it on execution	
PAS-1338	Library descriptor json document classes	
PAS-1339	Add library dependencies in generated package.json	

Release Notes of Builder Version 7.15

Builder 7.15.1 (16.07.2021)



Contains xUML Runtime Version: [2021.6](#)

New build due to [Analyzer changes](#).

Builder 7.15.0 (30.06.2021)



Contains xUML Runtime Version: [2021.6](#)

Bug	Description	Documentation Link
PAS-474	REST Adapter: blobBodyContentType not written to tabfiles	
PAS-897	loggerConfig.json does not log anything	
PAS-1125	pas-rc: Second form in process not executed	
PAS-1178	errors in log action scripts of default activities	

PAS-1195	Array parameters from library not handled correctly	
PAS-1202	Error on get request due to roles arrays concat	
PAS-1224	Missing translation in compiled app	
PAS-1261	If no explicit authorization everyone should be allowed	
PAS-1276	for-each mapping throws errors if mapping operation is used	
Improvement	Description	Documentation Link
PAS-462	Use SSO to deploy to the Bridge	
PAS-491	Control emitting type discriminator when serializing to JSON	classToJSON() Operation jsonToClass() Operation
PAS-493	Preset HTTP Service Base Maximum Connections in xUML model	
PAS-587	Define Lanes and roles in json structure	
PAS-589	Generate security module with roles	
PAS-591	Check roles in task requests	
PAS-644	Instance list request filter regarding if current user has role with list right on current element	
PAS-646	Add counts per role in get process instance list	
PAS-650	Add a selection step if two parallele usertask	
PAS-651	Show form or default view of task regarding the roles	
PAS-653	Return roles UUID in process meta request	
PAS-654	Retrieve roles UUIDs from metadata request	
PAS-655	Add the possibility to view the instance list by role	
PAS-724	REST Adapter: remove warning about unused output body parameter if AdapterResponse is used	
PAS-923	Generate friendly setting names for setting classes with special characters	
PAS-991	Use route guards	
PAS-1157	xUML API health check endpoint compatible with Kubernetes	
PAS-1219	Add creation and lastUpdate in process meta	
New Feature	Description	Documentation Link
PAS-66	Include linked CSS to the angular project	
PAS-441	Provide Form elements types to the designer	
PAS-506	REST service endpoint accepting input body of type Blob	
PAS-645	Possibility to query instance list by role	
PAS-943	Extend/Provide an interface to send css links to the compiler for the angular app	
PAS-1150	ZIP Adapter: (de-)compression with password	ZIP Adapter ZIP Adapter Reference

PAS-1153	provide roles to SecurityService	
PAS-1154	add authorizations in process module	
PAS-1168	Operations: classToExtendedJSON() /extendedJSONToClass()	• classToExtendedJSON() Operation • extendedJSONToClass() Operation

Release Notes of Builder Version 7.14

Builder 7.14.0 (30.05.2021)



Contains xUML Runtime Version: [2021.5](#)

New Feature	Description	Documentation Link
PAS-881	New MongoDB example	MongoDB Adapter
PAS-931	Compiler task hooks	
PAS-932	Compiler TraceCompileControl	
PAS-933	Abort Compile mechanism	
Improvement	Description	Documentation Link
PAS-453	Return 404 if instance does not exists	
PAS-458	Differentiate compile and build process	
PAS-459	Angular form trigger the transition regarding the event	
PAS-839	Add counts in get process instance list	
PAS-945	Use new app-theme version	
PAS-946	local service configuration	
PAS-947	umd module ids	
PAS-962	Retrieve user from platform and use user component	
PAS-990	Remove stereotype <<RESTParameter>> from activity parameter nodes in REST template	
PAS-995	Use data list and table element	
PAS-1013	Use new notification service and snackbar	
Bug	Description	Documentation Link
PAS-714	Alias Reader complains on unset Alias properties inherited from Alias Template	
PAS-766	Compiling forms returns unexpected errors	
PAS-858	Show available traces only works after clicking around	
PAS-877	Text area: compile error if you use multi line text	
PAS-914	Mapping simple type pin to parameter produces errors	
PAS-979	Pin handling with MongoDB adapter buggy	

Release Notes of Builder Version 7.13

Builder 7.13.0 (04.05.2021)



Contains xUML Runtime Version: [2021.4](#)

Bug	Description	Documentation Link
PAS-767	Compiler returns errors if no post execution is present	
PAS-512	XSLT Exception if none of REST Tags used within a REST Port Type has 'order' assigned	
PAS-424	Null values coming from designer are wrong passt to control	
PAS-425	Compiling Angular returns compiler error "Compiling es2015 as esm2015"	
PAS-828	Compile errors when start and event is missing	
Improvement	Description	
PAS-450	Change default hold time: one minute	
PAS-836	Simple between task to list the project elements	
PAS-835	Generated action scripts line elements in part tasks.	
New Feature	Description	
PAS-436	Install angular dependencies per project	
PAS-438	Distribute initial meta data from get request to each form elements	
PAS-437	Add get operations in Interface and service of generated BPMN	
PAS-439	compile mapping array foreach	
PAS-832	provide angular sources to the designer	
PAS-833	Compiler task to package the angular sources	
PAS-834	Use new libraries in generated app	

Release Notes of Builder Version 7.12

Builder 7.12.0 (31.03.2021)



Contains xUML Runtime Version: [2021.3](#)



Dependencies to RUNTIME

The following bugfixes and features depend on a new version of the xUML Runtime. Please install the Required Runtime version.

Bug /Feature	Description	Required Runtime
BUIL-5296	Older xUML Runtimes will not start if the feature is in use.	2020.13
BUIL-6419	Older xUML Runtimes will always return null.	2020.11
BUIL-6420	With older xUML Runtimes, the HTTP header map items will always be null.	2020.11
BUIL-6437	Older xUML Runtimes will ignore the settings but may display a startup warning.	2020.11
BUIL-6440	Older xUML Runtimes will ignore the settings and display a startup warning.	2020.12
BUIL-6470	Older xUML Runtimes will not start if the feature is in use.	2021.2
BUIL-6472	With older xUML Runtimes, a warning will be logged on startup. The fallback will have no effect.	2020.15
BUIL-6505	Older xUML Runtimes will not start if the feature is in use with HTTP, or SOAP services. With REST services the feature will remain inactive and a warning will be logged on startup.	2021.2
BUIL-6525	Older xUML Runtimes will not start if the feature is in use.	2021.1
BUIL-6540	Older xUML Runtimes will not start if the feature is in use.	2021.1
BUIL-6451	With older xUML Runtimes, a warning will be logged on startup. The endpoints will return 404.	2020.13
BUIL-6452	With older xUML Runtimes, a warning will be logged on startup. The endpoints will return 404.	2020.14
BUIL-6453	With older xUML Runtimes, a warning will be logged on startup. The endpoints will return 404.	2020.13
BUIL-6454	With older xUML Runtimes, a warning will be logged on startup. The endpoints will return 404.	2020.13

Bug	Description	Documentation Link
BUIL-6261	Importer: Library Importer removes depending libraries in libs folder	
BUIL-6301	Compiler: Timeout transition is not generated if use twice the same event	
BUIL-6304	Compiler: Compiler creates corrupt repository file	
BUIL-6367	Builder: Refresh descriptors errors should not stop opening project	
BUIL-6407	Compiler: PState sections of runtime API yaml not generated for library pstates	
BUIL-6417	Compiler: Builder generates incorrect loggerConfig.json	
BUIL-6431	Compiler: JavaAdapter Blob as byte[] not working	
BUIL-6464	Compiler: configurable "passthrough" http headers not working	
BUIL-6602	Builder: Attaching archive resource to repository locks the archive	
BUIL-6645	Examples: Update UI examples	
BUIL-6650	Builder: JavaScript Editor does not work	

New Feature	Description	Documentation Link
BUIL-5296	Compiler: Array.compact()	
BUIL-6357	Examples: Example for throwing errors from Java	
BUIL-6396	Examples: Extend logger example with new configuration features	
BUIL-6408	Examples: Example how to export UI table as csv using http service	
BUIL-6419	Compiler: MemoryAdapter return old value after changing or removing	
BUIL-6420	Compiler: Access to HTTP header map for HTTP-based services and adapters	
BUIL-6437	Compiler: Configurable incoming HTTP headers roles	
BUIL-6440	Compiler: Configurable automatic adapter HTTP headers	
BUIL-6460	xUML Compiler Service: Show instance overview in angular app when calling app without instanceId	
BUIL-6461	xUML Compiler Service: Add GET request functionality to angular application	
BUIL-6470	Compiler: MongoDB Adapter	
BUIL-6472	Compiler: Support serving single page application	
BUIL-6473	Compiler: UI should be also accessible from REST services	
BUIL-6474	xUML Compiler Service: Generate UI Repository and add angular app as resource	
BUIL-6483	xUML Compiler Service: Compile angular task	
BUIL-6486	xUML Compiler Service: Generic compiler task for replace in file	
BUIL-6497	xUML Compiler Service: Compile mapping array element	
BUIL-6499	xUML Compiler Service: Compile action script implementation	
BUIL-6505	Compiler: Configurable request body size limit for HTTP-based services	
BUIL-6525	Compiler: Support HTTP "Digest" header for HTTP-based Adapters	
BUIL-6534	xUML Compiler Service: Generate instance component for process project	
BUIL-6538	xUML Compiler Service: Define data structure of form json	
BUIL-6540	Compiler: Crypto Adapter: ability to choose hashing algorithm	
BUIL-6547	xUML Compiler Service: Compile form	
Improvement	Description	Documentation Link
BUIL-6316	Importer: Support BPMN events without message	
BUIL-6329	Wizard: Improve order of File System Adapter actions	
BUIL-6368	Builder: E2E Profiles should set URI	
BUIL-6391	Compiler: Write warning on service startup if log details feature is used with old Runtime	
BUIL-6401	Examples: Update JavaMail example to use v2 JavaMail API	
BUIL-6413	Builder: Builder must work with MagicDraw 18.0 SP7	

BUIL-6446	Examples: Do not touch so many port ranges with the examples	
BUIL-6451	Compiler: xUML Runtime API: Expose Scheduler Service	
BUIL-6452	Compiler: xUML Runtime API: Interface for asynchronous trace management	
BUIL-6453	Compiler: xUML Runtime API: Expose Start-up/Shut-down Activity	
BUIL-6454	Compiler: xUML Runtime API: Expose Timer Service	
BUIL-6462	xUML Compiler Service: Compile sub-class mappings	
BUIL-6463	xUML Compiler Service: Compile literals in mappings	
BUIL-6467	Examples: New example for startup and shutdown activities	
BUIL-6592	User Interface: Create UI theme (pas_blue) for standard PAS applications	
Sub-task	Description	Documentation Link
BUIL-6409	xUML Compiler Service: Define Json for differentiating signal and message event	

Release Notes of Builder Version 7.11

Builder 7.11.2 (18.12.2020)



Contains xUML Runtime Version: [2020.17](#)



Dependencies to RUNTIME

The following bugfixes and features depend on a new version of the xUML Runtime. Please install the Required Runtime version.

Bug /Feature	Description	Required Runtime
BUIL-6420	With older xUML Runtimes the items of HTTP header map will always be null.	2020.11
BUIL-6437	Older xUML Runtimes will ignore the settings but may display a startup warning.	2020.11
BUIL-6440	Older xUML Runtimes will ignore the settings and display a startup warning.	2020.12

Bug	Description	Documentation Link
BUIL-6464	Compiler: configurable "passthrough" http headers not working	
BUIL-6510	Importer: Reimport of BPMN corrupts model	
New Feature	Description	Documentation Link
BUIL-6420	Compiler: Access to HTTP header map for HTTP-based services and adapters	SOAP Call and HTTP Headers Using the URL Adapter with the HTTP Protocol
BUIL-6437	Compiler: Configurable incoming HTTP headers roles	

BUIL-6440	Compiler: Configurable automatic adapter HTTP headers	• REST Service Reference > AdapterResponse • Plain HTTP Service
BUIL-6459	xUML Compiler Service: generic Get requests for bpmn	

Builder 7.11.1 (28.08.2020)



Contains xUML Runtime Version: [2020.12](#)

Bug	Description	Documentation Link
BUIL-6436	xUML Compiler Service: Persisted variables with default value have no setting in the Bridge	

Builder 7.11.0 (30.06.2020)



Contains xUML Runtime Version: [2020.10](#)



Compatibility Hint

Builder is compatible with Magic Draw 18.0 Service Pack 7.

Bug	Description	Documentation Link
BUIL-4975	Compiler: SQL Gets mashed up if you use --	
BUIL-6332	Deployment view node is not refreshed correctly when sub module changed	
BUIL-6342	Compiler: Missing original location for error on choice state	
BUIL-6360	Unpacking all examples in one go does not work correctly	
BUIL-6370	Deployment does not re-query user/pw when the previous login was not successful	
BUIL-6372	xUML Compiler Service: Executions can have arrays	
BUIL-6387	Compiler: REST Alias: Options & Headers setting labels are missing alias name	
BUIL-6400	Embedded xUML service does not start	
BUIL-6402	xUML Compiler Service: Improve error message error.library.different.version	
BUIL-6406	xUML Compiler Service: Errors in matching overloaded methods by their parameters	
BUIL-6410	xUML Compiler Service: Download Repo does not work	
New Feature	Description	Documentation Link
BUIL-6371	xUML Compiler Service: Support Timer Start Event	
Improvement	Description	Documentation Link
BUIL-6356	Examples: Remove MD17 examples	

BUIL-6392	xUML Compiler Service: Remove array from Base Types	
BUIL-6397	Examples: Update Java Mail library in JavaMail example to 2.2.0	

Release Notes of Builder Version 7.10

Builder 7.10.1 (20.05.2020)



Contains xUML Runtime Version: [2020.8](#)



Known Issues

In this version of the Builder, services cannot be started in the xUML Runtime.

Bug	Description	Documentation Link
BUIL-6394	xUML Compiler Service: Exception trying to deploy from Designer	

Builder 7.10.0 (20.05.2020)



Contains xUML Runtime Version: [2020.7](#)

Bug	Description	Documentation Link
BUIL-6305	Compiler: Empty string default value specification on Boolean properties silently sets default value to "false"	
BUIL-6345	xUML Compiler Service: Process does not go to error state again after retry	
BUIL-6379	JavaAddOn: JMS adapter sets non-conforming JMS properties	
BUIL-6388	Importer: XSD import does not support xsd:import without namespace	
New Feature	Description	
BUIL-6318	xUML Compiler Service: Write project description to service model notes	
BUIL-6324	Compiler: Logging to channels	• Log Adapter pp. ◦ Defining a Custom Logger Configuration ◦ Log Adapter Reference
BUIL-6325	Compiler: Create initial logger configuration	
Improvement	Description	
BUIL-6275	Compiler: Reduce tabfile bloat associated with xUML Control Port Service	

Release Notes of Builder Version 7.9

Builder 7.9.0 (17.04.2020)



Contains xUML Runtime Version: [2020.7](#)

Bug	Description	Documentation Link
BUIL-6331	Timer data not available in Analyzer	
BUIL-6333	Wizard: Component Wizard failed creating Component Diagram with UI Controller	
BUIL-6339	Bridgeserver log is empty	
BUIL-6344	JAX-RS clients should be closed	
New Feature	Description	Documentation Link
BUIL-6353	Examples: Extend logger example with new object features	
BUIL-6354	Examples: Extend FileSystem example with new copy feature	
Improvement	Description	Documentation Link
BUIL-6330	Support <<DirectoryAlias>> for File System adapter "copy" action	
BUIL-6341	JavaAddOn: ActiveMQ Artemis JMS client 2.11.0	

Release Notes of Builder Version 7.8

Builder 7.8.0 (31.03.2020)



Contains xUML Runtime Version: [2020.6](#)



Dependencies to RUNTIME

The following bugfixes and features depend on a new version of the xUML Runtime. Please install the Required Runtime version.

Bug /Feature	Description	Required Runtime
BUIL-6213	Older xUML Runtimes will return an error when trying to access the xUML Runtime API.	2020.1

Bug	Description	Documentation Link
BUIL-5658	Compiler: impossible to assign a derived class whose superclass implements interface to variable of interface type	
BUIL-6266	Script Editor: Invalid XML generated if AS strings contain certain Unicode escape sequences	
BUIL-6272	Compiler: Compiler complains about SAP Changing Parameter	

BUIL-6282	Compiler: Fix type checks when `apply`, and `append` statements are involved	
BUIL-6297	Importer: Re-importing Java classes change the XMI ids (thus generating orphaned proxies)	
BUIL-6302	Importer: BPMN importer - use different events for done and aborted timeout	
BUIL-6306	Script Editor: Weird character in comments makes error	
BUIL-6319	Idaps missing as protocol on the URLAlias	
BUIL-6326	Compiler: SQL Adapter: Incorrect computation of BLOB parameter bindings number	
New Feature	Description	Documentation Link
BUIL-6196	Introduce action 'copy' in FileSystemAdapter	• File System Adapter pp. • Making a Copy of a File • System Errors
BUIL-6213	Compiler: xUML Runtime API: change log level	
Improvement	Description	Documentation Link
BUIL-6052	JavaAddOn: Propagate Transaction ID and Correlation ID in JMS message communications (as with SOAP)	• Contents of the Transaction Log • JMS Adapter Reference
BUIL-6183	JavaAddOn: JMS header X-Sender-Host and X-Sender-Service	
BUIL-6208	Compiler: Log additional data formatted as JSON	• log() Macro • report() Macro • Log Adapter pp.
BUIL-6209	Compiler: Generate environment variable name for settings in substitution.xml	xUML Runtime Tool
BUIL-6260	JavaAddOn: Make "type" (aka "domain") a parameter of BridgeException	Getting Started with the Java Adapter
BUIL-6267	Compiler: xUML Runtime API does not provide all the expected PState related methods	
BUIL-6300	Importer: Make holdTime and autoRetryTime as settings during BPMN import	
BUIL-6313	Deploy service: support a proxy in front of the Bridge	Changing the Model Compiler Settings

Release Notes of Builder Version 7.7

Builder 7.7.2 (16.01.2020)



Contains xUML Runtime Version: [2019.12](#)

Improvement	Description	Documentation Link
BUIL-6268	xUML Runtime 2019.12	

Builder 7.7.1 (10.01.2020)



Contains xUML Runtime Version: [2019.13](#)

Bug	Description	Documentation Link
BUIL-6264	Importer: import issue when element does not have same name as its type.	

Builder 7.7.0 (19.12.2019)



Contains xUML Runtime Version: [2019.12](#)

Bug	Description	Documentation Link
BUIL-6204	Examples: Spreadsheet Adapter: Operation createWorkbook blocks the file (libSpreadsheet 2.6, SpreadsheetAdapter 1.0.6, Apache POI 4.1)	
BUIL-6210	Examples: Wrong screen shot for MonitoringExample description	
BUIL-6225	Can not compile imported wsdl with url parameters in namespace	
BUIL-6245	Creation of new Builder model fails if extention .xml is not provided	
BUIL-6247	Importer: Cannot import archive file resource	
Improvement	Description	
BUIL-6201	JavaAddOn: Runtime errors of the JavaAddOn have distinct error codes in bridgeserver.log	
BUIL-6207	Script Editor: ActionScript Editor goto statement or line number	• Action Script Editor Menu Overview • Syntax Error Handling • Working with the Deployment View
BUIL-6238	Script Editor: mapEqualNamesIfExists() macro is not auto-suggested by ActionScript editor	

BUIL-6256	Examples: Update all Excel / Spreadsheet examples with new Excel libs: BigExcel Generator 6.0, Spreadsheet Adapter 3.0, Excel Generator 3.0	• Spreadsheet Adapter • BigExcel Generator • Excel Generator
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Release Notes of Builder Version 7.6

Builder 7.6.1 (30.10.2019)

 Contains xUML Runtime Version: [2019.10](#)

Bug	Description
BUIL-6215	Importer: wrong XmlElementName when importing anonymous complex types

Builder 7.6.0 (15.10.2019)

 Contains xUML Runtime Version: [2019.9](#)

Bug	Description
BUIL-5479	Importer: In MD 18, reimport of any modules results in version conflict warning.
BUIL-6031	Compiler: Support guards self.whatever().not()
BUIL-6109	Examples: urlUrl example uses non-existent URL for full dynamic GET
BUIL-6157	Compiler: Compiler generates empty port number in HTTP Service
BUIL-6158	Compiler: Persistent State AddOn not loaded when using conversations without other PS adapters
BUIL-6161	Deployment does not re-query user/pw when the previous login was not successful
BUIL-6184	Compiler: PersistentStateAdapter: Wrong compiler error message for getObjectCopy
BUIL-6192	Compiler: Compiler does not complain missing SQL-Alias in component diagram
BUIL-6197	JavaAddOn: Service with JMS listener does not stop
BUIL-6198	Compiler: Missing error if Java Callback UML operation is not static
BUIL-6200	Do not add tag sortByTime and sortByTimeOrder to persistent state adapter
BUIL-6205	Importer: Re-import of Java generates orphan proxies of operations (spreadsheetadapter.jar)
New Feature	Description
BUIL-6014	Compiler: External persistence for selected properties of PState classes
BUIL-6123	Action wizard parameters from stereotype of a property value
BUIL-6188	Examples: Example for external persistence for selected properties of PState classes

Release Notes of Builder Version 7.5

Builder 7.5.1 (02.07.2019)



Contains xUML Runtime Version: [2019.7](#)

Bug	Description
BUIL-6148	Importer: Swagger Importer fails to import BigCommerce catalog definition

Builder 7.5.0 (20.06.2019)



Contains xUML Runtime Version: [2019.6](#)



Dependencies to RUNTIME

The following bugfixes and features depend on a new version of the xUML Runtime. Please install the Required Runtime version.

Bug /Feature	Description	Required Runtime
BUIL-6006	The generated internal components require RUNTIME support. RUNTIME versions prior to 2019.4 will refuse to start.	2019.4
BUIL-6046	If the functionality is used, older RUNTIME versions will refuse to start.	2019.5
BUIL-6073	If the functionality is used, older RUNTIME versions will refuse to start.	2019.5
BUIL-6097	If the functionality is used, older RUNTIME versions will refuse to start.	2019.5
BUIL-6122	Needs xUML Runtime 2019.5 to run.	2019.5

Bug	Description	Documentation Link
BUIL-5727	Compiler: IBM MQ 9 mandatory settings Component	
BUIL-5728	Compiler: compiler requires port number as mandatory	
BUIL-6048	Compiler: Compiler should ignore BPMN activities to avoid unwanted errors	
BUIL-6055	Examples: SimpleHttpService does not work	
BUIL-6068	Compiler: Service Repositories from library projects are not deployable	
BUIL-6074	Importer: Importer does not import each overloaded operation from a Library class	
BUIL-6076	Compiler: Missing `type` property when generating OpenAPI descriptor	
BUIL-6087	SOAP template: change parameter to complex type	
BUIL-6089	Remove static module paths from model templates	
BUIL-6093	Compiler: Missing RootName and RootNamespace in composer.tab (introduced 7.0.0)	
BUIL-6095	Library Wizard ignores abstract classes	

BUIL-6097	HttpStatus is not given as output for URL adapter with streamTarget	
BUIL-6103	Compiler: Builder generates wrong trace port	
BUIL-6106	Examples: Fix modeling error in SQL stored procedures example	
BUIL-6108	SSL Verify Host: Option "Existence" missing in dropdown	
BUIL-6121	successful deployment not switch to green	
BUIL-6135	Compiler: CTRLAPI: Avoid colon in class names	
BUIL-6138	Compiler: Error message is not informative by duplicated class usage relations	
BUIL-6139	Cannot open Run / Debug view in MD if service not running	
BUIL-6141	Docu string of Base Components::Advanced Behavior::Persistent State::Owner::ownedObjects is wrong	
BUIL-6143	Base/Profile: cross-referencing with type="ebm:..." generates local type Ids.	
New Feature	Description	
BUIL-5746	Compiler: Provide <<E2EPrivate>> stereotype for class properties which shall not be exposed to the interface	Attribute Specification > Visibility
BUIL-6005	Compiler: Adapters for Persistent State control	Retrieving Persistent State Metadata with the PersistentStateControl Adapter
BUIL-6006	Compiler: Generate xUML Runtime API for Persistent State	xUML Runtime API
BUIL-6046	Compiler: Query alias values at runtime <<AliasReader>>	Alias Reader
BUIL-6073	Compiler: Utility function to parse and build URLs	• parseUrl() Function • composeUrl() Function
BUIL-6122	Examples: Add parseUrl() to String examples	• parseUrl() Function • composeUrl() Function
BUIL-6124	Examples: Add getCompositeVersion and getCompositeCategory to deploymentMacros example	• getCompositeVersion() Macro • getCompositeCategory() Macro
BUIL-6145	Examples: Example for new Alias Reader	Alias Reader
Improvement	Description	
BUIL-4960	Builder project file should be stable	
BUIL-5760	Compiler: New functions getCompositeVersion and getCompositeCategory	• getCompositeVersion() Macro • getCompositeCategory() Macro
BUIL-5969	Compiler: Export enumeration values defined via <<E2EValueGeneralization>> to WSDL	
BUIL-6077	Importer: OpenAPI: Allow importing Any type	

BUIL-6079	Compiler: Allow 'Any' type in REST Interface	• REST Parameter Object • REST Schema Object
BUIL-6092	Importer: XML Schema import should generate unique class names	
BUIL-6118	Examples: Migrate education examples to SOAP doc/literal	
BUIL-6125	JMS client ActiveMQ Artemis 2.8.1	
BUIL-6127	JMS client ActiveMQ 5.19.5	
BUIL-6133	Compiler: Get rid of duplicate information in component name of Runtime API logs	
BUIL-6142	Stop the runtime using xUML Runtime API	

Release Notes of Builder Version 7.4

Builder 7.4.1 (26.03.2019)



Contains xUML Runtime Version: [2019.3](#)

Bug	Description
BUIL-6082	Compiler: Compiler generates wrong service control port
Improvement	Description
BUIL-5989	Examples: Change logo to Scheer PAS Builder in QuickStart

Builder 7.4.0 (05.03.2019)



Contains xUML Runtime Version: [2019.3](#)



Dependencies to RUNTIME

The following bugfixes and features depend on a new version of the xUML Runtime. Please install the Required Runtime version.

Bug /Feature	Description	Required Runtime
BUIL-6054	Persistent state algorithm: Favor Events/Favor Objects: RUNTIMES prior to 2019.2 will refuse to start if the tag value is set, regardless which option is chosen.	2019.2

Bug	Description	Documentation Link
BUIL-5845	Compiler: Compiler should complain when two behavioral stereotypes are set on one adapter	
BUIL-6060	Missing pin step in Action Wizard for FlatFile adapter	
BUIL-6063	Event observer: Tagged value "firstOccurrence" not visible in specification	

New Feature	Description	
BUIL-6054	Compiler: Persistent state algorithm: Favor Events/Favor Objects	• Persistent State Components • Performance Considerations of Persistent State > Event Selection Algorithm
Improvement	Description	
BUIL-6040	Rework Builder template to contain a change log table	• Scheer PAS Builder for MagicDraw Basics pp. • Project Organization > Where to Log Changes • Model Documentation
BUIL-6056	Importer: Lack of Feedback when trying to import another version of a dependent library	
BUIL-6065	Wizard: Move classToXML default root name to advanced tab	

Release Notes of Builder Version 7.3

Builder 7.3.1 (11.02.2019)



Contains xUML Runtime Version: [2019.2](#)

Builder 7.3.0 (01.02.2019)



Contains xUML Runtime Version: [2019.1](#)



Dependencies to RUNTIME

The following bugfixes and features depend on a new version of the xUML Runtime. Please install the Required Runtime version.

Bug /Feature	Description	Required Runtime
BUIL-5901	OData importer: Add Etag as RESTParameter in header - needs RUN-2418 - REST Header parameter should be ignored if not set.	2019.1

Bug	Description	Documentation Link
BUIL-5731	Library compile does not work if it has the same name as component	
BUIL-5740	E2EJMSListener stereotype hides "Base classifier" from Specification	
BUIL-5958	Importer: Importing an archive file resource fails without messages	
BUIL-6015	Compiler: Previous errors are not shown if exception occurs	

BUIL-6025	Importer: Builder 7.2.1 refuses to import certain E2E libraries	
BUIL-6026	Compiler: XPathException when recursive UI Service interface	
BUIL-6029	Wizard: Component Diagram Wizard does not recognize REST Error Class	
BUIL-6030	Wizard: Edit Component Wizard overwrites always encoding style of SOAP service	
BUIL-6036	Examples: Wrong service port in REST JIRA adapter example	REST example
BUIL-6039	Examples: REST supportmanager with authorization writes wrong logs	REST example
BUIL-6042	Importer: FlatFileDef Importer creates nonsense tagged values	
BUIL-6043	REST Test Port must indicate "do not cache yml" to browser	
BUIL-6044	Context Menu in Containment tree offers three shortcuts "XML Class"	
BUIL-6045	REST-RequestOptions->port is private	
BUIL-6051	Compiler: Row transition fails with server side pagination	
Improvement	Description	Documentation Link
BUIL-5736	Compiler: Detect accidental usage of UML Profile classes String, Integer, Boolean etc	
BUIL-5765	xuml: Output for [-clean] is confusing	
BUIL-5786	Compiler: Compiler error message shall provide statement number when it belongs to an action script	
BUIL-5873	Compiler: Display compile error if calling a REST operation without stereotype <<RESTAdapter>>	
BUIL-5901	OData importer: Add Etag as RESTParameter in header	Implementing REST Methods > Output: Header Parameter
BUIL-5991	Examples: OData - Use etag RESTParameter in header	OData example

Release Notes of Builder Version 7.2

Builder 7.2.1 (22.11.2018)



Contains xUML Runtime Version: [2018.11](#)

Bug	Description
BUIL-6017	Repository not correctly deployed
BUIL-6018	Get rid of default value for initialSortOrder
BUIL-6020	Importer: Re-Import causes MagicDraw null pointer

Builder 7.2.0 (09.11.2018)



Contains xUML Runtime Version: [2018.11](#)



Compatibility Hint

As of Builder 6.0.29 / 7.2.0, the Compiler reports an error, if a local variable is re-declared within Action Script. You will need to change your implementation, if the Compiler points you to a implementation like this.

Refer to [Compiler Reports Error: Local variable is re-declared](#) for more information.

Bug	Description
BUIL-5709	Deployment displayed as successful if no password was specified
BUIL-6000	Importer: Key value more than once in tabfile when multiple BPMN Process import
Improvement	Description
BUIL-5668	Use Bridge Api for DeployTask and add it to CompileProcess
BUIL-5697	Script Editor: Remove memory adapter functions storeInMemory, removeFromMemory and retrieveFromMemory from ActionScript menu
BUIL-5725	JavaAddOn: Throw exception in case of JMS send without a message
BUIL-5985	Compiler: Raise error when ActionScript variable is redeclared

Release Notes of Builder Version 7.1

Builder 7.1.0 (11.10.2018)



Contains xUML Runtime Version: [2018.11](#)

Bug	Description
BUIL-5485	Script Editor: Attributes are not suggested when using select distinct
BUIL-5966	Compiler: Persistent State Adapter: identifierCondition may not work
BUIL-5971	Compiler: Compiler gets confused when using mapEqualNamesIfExists
BUIL-5980	Importer: XSD sequence gets violated on the way from xsd import to classToXml()
New Feature	Description
BUIL-5347	Compiler: REST service and adapter: support Blob as body output parameter
BUIL-5348	Compiler: REST service and adapter: support other content types
BUIL-5908	Importer: Introduce optional 'isOrdered' inactivation at WSDL/XSD import
Improvement	Description
BUIL-5701	Simplify resource files
BUIL-5915	Importer: BPMN root state machine: Add additional logging to service log on automatic retry
BUIL-5965	Compiler: Report a warning if version for E2E services is missing
BUIL-5973	Compiler: Official version information
BUIL-5974	Compiler: Enable runtime check: error in case of conditions with null
BUIL-5975	Compiler: Enable runtime check: error in case of object navigation on null references

BUIL-5976	Compiler: Rest Port URL needed
BUIL-5981	Examples: Update Java MailExample with new libJavaMail 1.5.12
BUIL-5986	Examples: Add service version to examples
BUIL-5987	Scheer PAS logo and name

Release Notes of Builder Version 7.0

Builder 7.0.0 (12.07.2018)



Contains xUML Runtime Version: [2018.7](#)

Bug	Description
BUIL-5947	Importer: Java import does not update existing jar files
BUIL-5955	Weird layout and mouse interaction in Deployment View on new errors
Improvement	Description
BUIL-5493	BPMN: Make ProcessName on imported BPMNs editable

Builder 7.0.0-rc1 (22.06.2018)



Contains xUML Runtime Version: [2018.6](#)

Bug	Description
BUIL-5875	Parallel component diagrams for library and service with same name not working anymore
BUIL-5899	Compiler returns succesful deployment, but it isn't compiled and deployed
BUIL-5922	Tagged value "native type" not displayed in specification dialog
BUIL-5932	Compilation errors from used modules are not properly catched
BUIL-5934	Importer: OData importer freeze with this edmx
New Feature	Description
BUIL-5929	Examples: New Gateway example
BUIL-5935	Compiler: Simple version for E2E services
Improvement	Description
BUIL-5917	Examples: Check examples for "Resolve Inheritance" in component diagram
BUIL-5920	Examples: Update JavaMail example with new library 1.5.11
BUIL-5936	Wizard: Components Wizard should not set resolveInheritance at all
BUIL-5937	Importer: OData importer: option to only import entities

Builder 7.0.0-beta4 (31.05.2018)



Contains xUML Runtime Version: [2018.5](#)



Dependencies to RUNTIME

Bug/Feature	Description	Required Runtime
BUIL-5694	Compiler: Allow static path but dynamic file	2018.5

Bug	Description
BUIL-5460	RESTAdapter export from Library eats the Proxy Type, leading to compile error
BUIL-5608	BlockThread no longer available in ActionWizard
BUIL-5732	"Run" command is not always working
BUIL-5906	BPMN: Typo in BPMN root state machine
BUIL-5907	Importer: New BPMN root state machine: Set a valid duration as a default of holdTime
BUIL-5909	Compiler: Local variable assigned with previous value inside iteration
BUIL-5911	Importer: Re-import of BPMN removes substatemachine on compensation state
BUIL-5912	Importer: Import of BPMN results in validation errors in import file
BUIL-5918	Interactive Debugger: Interactive debugger does not work anymore
BUIL-5919	Java console does not open anymore
BUIL-5923	Importer: WSDL import: Link between wsdl.import.xml file and xsd.import.xml file broken
BUIL-5927	BPMN: Imported BPMN classes: incorrect and missing link
New Feature	Description
BUIL-5694	Compiler: Allow static path but dynamic file
Improvement	Description
BUIL-5214	New SOAP services should use doc/literal as default
BUIL-5284	Compiler: Print error if old component diagram is present
BUIL-5612	BPMN: Log STATE_END in case of an error
BUIL-5756	E2E Process Tracing: extend transaction logging to accept custom timestamps
BUIL-5905	Examples: Update BPMN example with new root state machine
BUIL-5913	Importer: Remove parameters from error signals of BPMN state machine
BUIL-5914	Importer: BPMN Importer: log process id to bridgeserver log
BUIL-5921	Compiler: Take element numbering into account when compiling UI tables
BUIL-5925	Examples: Apply new numbering to BRIDGE 7 examples

Builder 7.0.0-beta3 (30.04.2018)



Contains xUML Runtime Version: [2018.4](#)



The BRIDGE must also have 7.0.0-beta3 installed in order to deploy xUML services from Builder 7.0.0-beta3.



Dependencies to RUNTIME

The following bugfixes and features depend on a new version of the xUML Runtime. Please install the Required Runtime version.

Bug /Feature	Description	Required Runtime
BUIL-5891	Dynamically set XML root name and namespace will be ignored in runtime versions older than 2018.4	2018.4
BUIL-5857	Older xUML Runtime will refuse to start if the tag value is set.	2018.4
BUIL-5830	Runtime version prior to 2018.4 will ignore the settings and always pretty-print JSON.	2018.4

Bug	Description
BUIL-5817	Compiler: cannot start service with Java in xUML library (old addon.jar in repository)
BUIL-5832	BPMN: Name of Subprocess does not appear in Transaction Logging
BUIL-5836	Wizard: Missing labels in Component Wizard
BUIL-5841	Importer: Resource import appears to be broken
BUIL-5842	Import Options dialog does not scale nicely
BUIL-5861	Examples: Quickstart example has broken link to contact page
BUIL-5863	Importer: Can not import new WSDL from Domibus 3.2. RC1
BUIL-5868	Wizard for creating Aliases shows generic errors and titles that cannot be resolved
BUIL-5876	Cannot import library (An error occurred during importing an XMI file)
BUIL-5886	Compiler: Output object of <<SAPXMLIDocParser>> must be named after root element of XMLIDoc
BUIL-5891	Compiler: classToXml and xmlToClass using variable name as root tag instead of variable type
New Feature	Description
BUIL-5639	Compiler: Change front-end port number after compilation
BUIL-5816	Importer: Importer for OData services
BUIL-5855	Compiler: Provide Runtime with information about new features required by the service
BUIL-5857	Compiler: Access to transaction isolation level via SQL Alias
BUIL-5865	Examples: ODATA Service example
BUIL-5892	Support starting embedded runtime with dynamic ports
Improvement	Description
BUIL-5429	Importer: REST Importer: Assign proper multiplicities for 'required' and optional properties.
BUIL-5459	Importer: Improve root state machine from BPMN importer
BUIL-5466	Compiler: REST: Possibility to define empty response
BUIL-5807	JavaAddOn: stop JMS Listeners on service shutdown
BUIL-5818	Wizard: Wizard for FileAlias and DirectoryAlias
BUIL-5830	Compiler: Composing compact JSON
BUIL-5854	Compiler: Support calling a operation without defining optional parameter

Builder 7.0.0-beta2 (01.03.2018)



Contains xUML Runtime Version: [2018.2](#)



Dependencies to RUNTIME

The following bugfixes and features depend on a new version of the xUML Runtime. Please install the Required Runtime version.

Bug /Feature	Description	Required Runtime
BUIL-5799	Service will not start if you use older Runtime versions.	2018.2
BUIL-5757	Runtime version prior to 2018.1 will ignore custom timestamp setting	2018.1

Bug	Description
BUIL-5000	Compiler: PersistentStateBroadcastSignal compile error on empty identifier condition
BUIL-5710	Importer: Error with archiveFile: The system cannot find the path specified
BUIL-5764	e2ec: running from "uml" directory does not work
BUIL-5780	e2ec: Return 1 in case of wrong parameters
BUIL-5787	"Edit Component Diagram"-Button throws an exception
BUIL-5788	Compiler: Java Null Pointer Exception when compiling libEDIArchiving
BUIL-5790	Compiler: Compiler does not accept <<FileAlias>> on <<FlatFileAdapter>>
BUIL-5791	Builder writes additional elements to "instance.tab" when starting embedded
BUIL-5799	Compiler: Enable runtime to use new DateTime parsing implementation
BUIL-5802	Importer: OpenAPI importer throws errors on "additionalProperties: false" entries
BUIL-5803	Importer: OpenAPI importer does not import complex consumes/produces
BUIL-5809	Compiler: REST adapter silently ignores "out" parameters with <<RESTParameter>> stereotype
BUIL-5826	Importer: When importing Java service, the imported *.jar has tag value "deploy" not set which leads to compiler error
BUIL-5829	JavaAddOn: Memory leak when receiving JMS messages using JMSListener
BUIL-5831	Wizard: File and Directory alias missing in list of stereotypes to choose from
BUIL-5833	JavaAddOn: addon.jar is missing version info
New Feature	Description
BUIL-5640	Importer: Importer for OData entities
BUIL-5801	Examples: Extend logger example with custom timestamp
Improvement	Description
BUIL-5548	Change definition of Error class in REST template to contain message
BUIL-5613	Example list is not sorted
BUIL-5682	Examples: Add missing callbacks to Java Frontend example
BUIL-5722	Remove support for MagicDraw 17
BUIL-5757	Compiler: Allow overriding timestamp when logging custom TRX entries
BUIL-5766	e2ec: better error message if UML model does not exist

BUIL-5784	Compiler: Changed compiler behavior for tagged value "soapAction" breaks service (s)
BUIL-5820	Examples: Change file system examples to not use FileSystemAlias anymore

Builder 7.0.0-beta1 (18.12.2017)



Contains Embedded Runtime Version: [2017.10](#)



Dependencies to Runtime

The following bugfixes and features depend on a new version of the xUML Runtime. Please install the Required Runtime version.

Bug /Feature	Description	Required Runtime
BUIL-5754	The setting will be silently ignored by older xUML Runtimes.	2017.10

Bug	Description
BUIL-5580	Compiler: Timer from library does not work
BUIL-5716	Examples: One wrong url in FlatFilePattern test file
BUIL-5743	Compiler: Transformation not checked for correct type if base flow is of correct type
BUIL-5748	Importer: OpenAPI import fails: "Unexpected exception: null" when parameter \$ref is not found
BUIL-5752	Importer: Import OpenAPI fails
BUIL-5763	e2ec: NullPointerException if you compile model with old component diagram
BUIL-5770	Compiler: Compiler process issues
BUIL-5772	Compiler: Builder randomly generates invalid repository
New Feature	Description
BUIL-5295	Compiler: Provide command line compiler with option to compile models and libraries
Improvement	Description
BUIL-5305	Compiler should validate if SOAPAction value is "" for document style operation
BUIL-5594	Compiler: Remove support of old component and deployment diagram (first step compiler)
BUIL-5619	Remove support for old overrides format
BUIL-5671	Compiler: WSDL resolveInheritance is deprecated
BUIL-5714	get rid of "classLoader = sun.misc.Launcher\$AppClassLoader" on stdout
BUIL-5715	Compiler: Clean-up stdout
BUIL-5719	Examples for release 7
BUIL-5721	e2ec: print usage
BUIL-5754	JSON ComposerOptions for REST service and adapter