

Release notes

Release 3.2 platform upgrade

(Project ART-DECOR)

December 2021



Introduction

ART-DECOR[®] Release 3 will be published step by step starting, continuing today with Release 3.2 that brings along many new features and improvements.

Overview

Story/cluster Platform upgrade: A new user interface with an improved user experience (UX); a new framework (Vue) replaces the Orbeon[®] platform. The eXist[®] database (exist-db.org) remains as the well-founded backend; an update to the latest version has been done to improve performance and stability.

Resolved in Release 3.2

Story/cluster: new landing page, new landing page for the project overview as well as panels for datasets, scenarios, terminologies, and templates with the navigation tree on the left and details shown on the right. Database upgrade (to version 5.3.0).

New functionalities (compared to ART-DECOR 3.1; compared to ART-DECOR 2 in **bold**)

Project

- add metadata (copyright) in dedicated field.
- manage repositories.
- manage services.
- manage name spaces.
- manage project languages
- edit publication locations.
- manage project identifiers.
- manage governance groups the project is associated with.
- project development panel with check project, compile development environments and artefact management.
- the project index, an overview of all artefacts of the project in a new layout.

Datasets

- add new or clone dataset in project.
- managing inheritance and containment of dataset concepts.



Scenarios

• view scenarios and transactions, including representing templates and corresponding actors.

Terminology

- view value sets, navigation and details.
- view code systems, navigation and details.
- terminology identifiers list.
- terminology browser with quick cross code system browsing.

Rules

 constraint rules, here: templates especially for HL7 v3 and CDA documents, navigation, grouped by type, and details including most items of the template design body.

General enhancements

• In certain situations our wise owl may appear and give you hints or instructions on how to continue or what to do. The example below is the owl telling you to select a project first, before you can browse it.

Select a project to start viewing or working with one.



Missing functionality

In ART-DECOR release 3 compared ART-DECOR release 2 some functionality is still missing. The following main areas (main menu items) are still under development and therefore are missing functionality:

- Scenarios and Transactions (read-only in 3.2)
 - Representing Template; the representing template documents which dataset concepts are linked to a transaction and enriches it with additional properties.
- Terminology (read-only in 3.2)
 - o Value Sets
 - o Code Systems
 - o Mappings
- Rules
 - o Templates (read-only in 3.2)

The other areas are available in Release 3.2. Specific missing functionality for these areas are listed on the following pages. The ticket numbers that are given and are the ART-DECOR Expert group ticket numbers.

We also zoom in on the areas which are ready to be used to provide you with more details about the area.



Landing page (Home)

New landing page where you can choose a project to inspect or work with. The menu on the left let you choose a specific area (**Project, Datasets, Scenarios, Terminology, Rules, Issues**)

	ART-DECOR® 3.2	😑 🛛 EN 🗯 🂼 Demo 5: Vital Signs CDA Document		DEMO-AUTHOR EN
^	Home		Welcome Demo Author	Services
	Project V Datasets V		Quick 🗈 🖬 🌐 🖉 🏴 Links	Subscribe to our <u>Hewsletter</u> See our <u>Planned Maintenance</u>
	Scenarios 🗸 🗸		Projects Current: Demo 5: Vital Signs CDA Document	Write us for feedback / feature requests Got a problem? Write to our <u>Support</u>
•	Terminology 🗸			-
•	Issues 🗸	ART DECOR	La Search 👻	This server Constraints ache Constraints ache Constraints ache Constraints age Constraint
1	Design 🗸 🗸		ART-DECOR®	
			Version 2.2.1 - 3.uk 2.078 AMT V2.1.52 - AVT V2.2.0 - DECOR core v2.1.14 - Debalane v3.3.0 mNk.	Artefact statistics for this server v Configuration v
			Hosted by	
			ATTERCOR Expert Grap	

Resolutions details for Project, Datasets, Scenarios, Terminology, Rules, Issues.

Project

Project is ready to be used. You can go to different areas with the navigation tree on the left and details shown on the right. The areas in Project are: Overview, Authors, Publications, History, Identifiers, DECOR Locks, MyCommunity, Governance Groups, ADA, Development and Project Index.

ART-DECOR® 3.2	😑 🛛 EN 🖷 🧰 Demo 5: Vital Signs CDA Document						DEMO-AUTHOR EN
★ Home Project ∧ Overview	Demo 5: Vital Signs CDA Document Description Demo 5: Vital Signs Report Summary CDA Document Edit Text					00) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Publications History	DATABITS 1	ссельянов		PROFILES 27	•		PUBLICATIONS 2
Identifiers MyCommunity	Prefer demoS-	Lid 2.16.840.1.113883.3.1937.99.60.5			Last modified 2021-12-07 14:39:04		
ADA Project Index Datasets ~	Properties PROJECT LANGUAGES SWITCHES PUBLICATION LOCATION						
Scenarios V	© Copyright			☐ Repositories Prefix URL			Туре
Terminology Xules Y	The ART-DECOR expert group	2012-2016 ~		ad1bbr- http://art-deco ad2bbr- http://art-deco	x.org/decor/services/ x.org/decor/services/		decor decor
📭 Issues 🗸			Ľ	ad3bbr- http://art-deco	r.org/decor/services/		decor

Datasets

Datasets is ready for use. To see the datasets, you have to click on the submenu 'datasets'. The datasets for that project will be shown in the navigation tree view.



ART-D	ECOR® 3.2	😑 🛛 EN 🌉 🥚 Demo 1: Measurements by patient
↑ Home		Demo 1: Measurements by patient > Datasets > Dataset
Project	~	DATASETS DETAILS
Datasets	^	
Dataset		Search
Scenarios	~	Decor 1 Demo dataset
	iy 🗸	
✓ Rules	~	
Issues	~	
💉 Design	~	

When you select a dataset in the navigation tree view you can see the details on the right.

ART-DECOR® 3.2 = EN = Demo 1: Measurements by	patient	LOGIN 🕀 🛛 EN 🎫
Homo Demo 1: Measurements by patient Datasets D	aat > Decor 1 Demo dataset > 2021-11-19 > Weight > 2021-11-19 🕜	
Project Carteria SE DATASETS DETAILS		
Datasets Search	Wingt massurent M New Data Verin Verin Lefe	
Scenarios	3 Weight Oraft 2021-11-19 Hone Hone Hone	^
terminology	Terminology Association	
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	Examples 2Sig	
	Relationships (0)	~
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Missing functionality for datasets:

• Currently when you click on the inherited link you see only basic information from the inherited concept (see screenshot below). This will be extended in the next release in ticket [AD30-457].

collectior	n of official first	names registered at birth.
	😐 Jaam	
èrfd van	mp-dataele	ment612-4160
Waard	ld:	2.16.840.1.113883.2.4.3.11.60.20.77.2.1.4160
Soort	Version:	2013-07-24 00:00:00
ab Strin	Status:	final
Eigensc	happen	
Voorbee	lden	



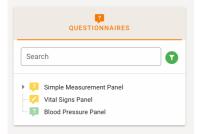
Scenarios

The areas in Scenarios are: Scenarios, Actors and Questionnaires.

The Panel offers all scenarios and nested transaction groups and transaction leaves in the navigation tree. The right detail area varies depending on the items chosen in the navigation. Transaction groups typically show sequence diagrams (in new style), the transaction leaves show their representing template along with details of the transaction concepts such as a view on the corresponding dataset concept, conditions etc.

ART-DECOR® 3.2	😑 🛛 EN 🖷 🧰 Demo 1: Measurements by pa	tient					LOGIN E	EN
✿ Home	Demo 1: Measurements by patient -> Scenarios -> Scena	rios > Measurement message > 2012-09-05 🔗						
Project 🗸	SCENARIOS	Measurement message Source dataset: Decor 1 Demo dataset						
Datasets 🗸	Search	Measurement message test						
Scenarios A	Measurements by patient	Id Name 2 Measurement message	EN ()	Status 😑 Draft	Version 2012-09-05	Version Label		~
Scenarios	👻 🧁 Measurement							
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Questionnaires	Measurement with BSN Test Maarten (2)	Name	Measurement					
		Measurement - 0* Optional						
🧭 Rules 🗸 🗸		- 🤪 Weight – 11 Mandatory	1 Oraft		Version 2012-05-30			
P Issues 🗸		😑 Weight gain 01	None					
		✓ Weight gain data – 01 Conditional						- 1
		🍋 Size weight gain 0 1	Conditions					^
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		Datetime - 01	(If the color of the eyes is blue or g	Preenish) A Not present				
		Measured by - 01						
		Comments – 0*						
		Person - 11 Conditional						
		L						

Questionnaires are already present as a draft preview Navigation Tree mock-up.



Note: Questionnaires are viewable/downloadable from the Project Index.

Missing functionality for scenarios:

- Adding a new scenario and cloning of a scenario is not available. This will be extended in the next release in ticket [AD30-387].
- Scenario, transactions and representing template are read-only. The representing template documents which dataset concepts are linked to a transaction. This will be extended in the next release in ticket [AD30-453].



Terminology

The areas in Terminology are: Value Sets, Identifiers, Mappings, Code Systems and Browser.

Terminology Panel is not yet fully ready for use, but most parts are available read-only. We will zoom in on the specific areas to inform you about the missing functionality.

Terminology: Value Sets

The Panel offers the list of all value sets of the project, sorted alphabetically and indicating whether they are in-project value sets or references from a building block repository (BBR). Once a value set is chosen on the left, the right card shows the details of the value set including the concept list.

ART-DECOR® 3.2	😑 🛛 💼 Demo 1: Measurements by pat	ient							LOGIN 1	EN
✿ Home	Demo 1: Measurements by patient > Terminology > Value	eSet > demol-i	ali-types → 2012-07	25 🖉						
💼 Project 🗸 🗸	VALUE SETS	e demo1-a	all-types							
Datasets Soenarios Terminology Value Sets	Search AppointmentStatus Control al-hypes Control al-hype Control al-hypes Control al-hype Control al-hyp	sdfsdf Id 7	Display Name demo1-all-types		Status O Draft		Version 2012-07-25	Version Label		^
Identifiers	4 b	Source Co	desystems	Codesystem name						
Mappings		2.16.840.1.113	883.6.1	Logical Observation Identifier Names and Codes						
Code Systems		2.16.840.1.113	883.6.256	RadLex						
Browser			883.3.1937.99.62.3.5							
🕑 Rules 🗸 🗸		2.16.840.1.113		SNOMED Clinical Terms						
• Rules •		2.16.840.1.113	883.5.1008	Null Flavor						
P Issues ~		Concept li	st			Search				Q,
		Level/Type		e / Sescription			Code System			
			LOINC	Code System			LOINC			
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		0-A	levelOA level 0 A Some des				demo1-codesystem-999			
		1-5	level15 level15				demo1-codesystem-999			
		1-D	levei10 level-1-0				demo1-codesystem-999			
		2-L	ievel2L level 1 L				demo1-codesystem-999			
			-	e is-a Code 105590001 Substance			SNOMED Clinical Terms			
			-	ion is-a Code 260769002 Material			SNOMED Clinical Terms			
			NI no inform				Null Flavor			
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Missing functionality for Terminology, Value Sets:

• Add and Edit Value Sets is currently disabled. Only viewing is available. This will be extended in the next release in ticket [AD30-393].



Terminology: Identifiers List

A sortable list of all terminology identifiers of the project is available.

	ART-DECOR® 3.2	=	EN 🛒 🧰 Demo 1: Measurements by patient				LOGIN Đ	EN
÷	Home		Demo 1: Measurements by patient > Terminology > Identifiers					
•	Project 🗸		123 List of value set identifiers used in this project		Search			٩
	Datasets 🗸		ы	un	Display Name	Versions / Status		
	Scenarios 🗸		2.16.840.1.113883.3.1937.99.62.3.11.5		vs-measured-by	2012-07-25 😑 Draft		
•					vs-measured-by-2011	2011-07-25 😑 Draft		
v	alue Sets		2.16.840.1.113883.3.1937.99.62.3.11.6		demo1-meting-type	2012-07-25 😑 Draft		
Id			2.16.840.1.113883.3.1937.99.62.3.11.7		demo1-all-types	2012-07-25 😑 Draft		
м	appings		2.16.840.1.113883.4.642.3.484	http://hi7.org/fhir/ValueSet/appointmentstatus	AppointmentStatus	2019-11-01 😑 Draft 🌰 ad5bbr-		
c	ode Systems					Rowa per page: 10 👻	140f4 <	>
B	rowser							

Terminology: Mappings

The Mappings Panel allows first creations of terminology mappings.

	ART-DECOR® 3.2	🔳 🛛 EN 🗮 🤷 Demo 1: 1	Measurements by p	atient					LOGIN Đ	EN
÷	Home	Demo 1: Measurements by patient	: > Terminology > M	ppings > Decor 1 Demo dataset	> 2021-11-19 > Weight > 2021-11-19	ø				
۵	Project 🗸	DATASETS		Weight Decor 1 Demo dataset						
n	Datasets 🗸 🗸	Search	•	(
••••	Scenarios 🗸			Concept associations	Display Name	Code System		Equivalence		
•		- 🔗 Duration 👻 🗁 Measurement		27113001	Body weight	SNOMED Clinical Terms		Regultranentos		
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	de Systems	 ✓ Ornments ▶ □ Person 								
Bre	Rules 🗸	4	+							

Missing functionality for Terminology, Mappings:

• Add and Edit Mapping is currently disabled. Only viewing is available. This will be extended in the next release in ticket [AD30-233].



Terminology: Code Systems

The list of code systems used in the project is viewable through the Code System Panel.

	ART-DECOR® 3.2	😑 🛛 EN 🚝 🧰 Demo 1: Measurements by p	atie	ent								LOGIN 🕣	EN
÷	Home	Demo 1: Measurements by patient > Terminology > Co	ode Sj	ystems → Meas	sured b	y > 2011-07-25 🔗							
۵	Project 🗸	CODE SYSTEMS		Measured	l by								
n	Datasets 🗸 🗸	Search		None									
	Scenarios 🗸		10	d		y Name sured by		Status Final	Version 2011-		n Label		~
۲	Terminology	Measured by V3.NullFlavor											
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Id	entifiers	<u>ч</u>		Level/Type Co	ode	Designation						Status	
м	appings			0-L P		Preferred: Patient						Active	
	ode Systems			0-A Z4	4	Preferred: Care Provider						Active	
	xde Systems			1-L T		Preferred: Homecare						Active	
Br	owser			0-A 21	V	Preferred: Physician						Active	
0	Rules 🗸			1-L H		Preferred: General Practitioner						Active	
•	Rules 👻			0-S M	1	Preferred: Family care						Active	
۲	Issues Y			Usage (2)									^
				Value Set			ы			Project			
				vs-measured	d-by a	of 2012-07-25	2.16.840.1.113883.3.1937	.99.62.3.11.	5	Demo 1: Measurements by patient			
				vs-measured	d-by a	of 2011-07-25	2.16.840.1.113883.3.1937	.99.62.3.11.	5	Demo 1: Measurements by patient			
			Ľ										
			_										

Terminology Browser

The terminology browser with quick cross code system browsing is available. The browser will be also used for adding and editing value sets in the next release.

ART-DECOR® 3.2	😑 🛛 EN 🖷 🧰 Demo 1: Me	easurements by patient						LOGIN 🗄	EN
n Home	Demo 1: Measurements by patient	> Terminology > Browser 🔗							
🏛 Project 🗸 🗸	Search by term			Search by code	All codesystems		LANGUAGES		
🚺 Datasets 🗸 🗸				No data	ivaliable				
Scenarios ~			LOINC	LOINC 2.70.0	World Health Organization	ATC 19.1	World Health Organization		
Value Sets		HLZ V S				ORPHA			RADLEX
Identifiers Mappings	HL7	1360.20160323.0	Phenotype Intology	HPO 1.1	orphanet	опрна 1.1	RSNA		8.14.0
Code Systems	Remove the added to the second	KCD-10 NL 2.0.4	Endesinstitut Generational and Median produkte	ICD-10 DE					_
Browser	Rep a gar	El VI-T							
🏴 Issues 🗸 🗸									



Rules

The areas in Rules are: Templates, Profiles, Associations and Identifiers.

Rules: Templates

The Panel offers the list of all templates of the project, grouped by their type as usual. The templates are groupwise sorted alphabetically and indicate whether they are inproject templates or references from a BBR. Once a template is chosen on the left, the right card shows the details of the templates including the template design body.

ART-DECOR® 3.2	😑 🛛 EN 🖭 🍅 Demo 5: Vital Signs CDA Dor	cument				LOGIN 🕣	EN
Home	TEMPLATES	🛟 Blood pressure 🖉					
Project 🗸							
🗋 Datasets 🗸 🗸	Search	128 Displey Name 128 Blood pressure		😑 Draft	Vesion Vesion Label 2013-12-30 None		
Scenarios 🗸	CDA Document Level Template CDA document	Example					~
🗊 Terminology 🗸 🗸	CDA Header Level Template CDA Section Level Template						
🕗 Rules 🔷	CDA Entry Level Template Biood pressure	EXPAND 😫 COLLAPSE 🕱			Search		Q
Templates	- 👶 Body Height - 🖧 Body Temperature	ltem	DT Card	Conf D	Description / Constraints		
Profiles	- 🖧 Body Weight	- 🃦 hl7:observation	1.1				
Associations	- 👶 Heart Rate	– ⊏ <u>∱</u> classCode	1.1	F C	OBS		
	- 👶 Mean blood pressure	moodCode	1.1	F E	EVN		
Issues Y	- 🛟 Oxygen Saturation	✓	II 1.1				
	- 😳 Respiratory Rate	⊂ <u>p</u> root	1.1	F 2	2.16.840.1.113883.3.1937.99.60.5.10.128		
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		hi7:text	ED 01				
		hl7:statusCode	CS 11	M F	Fixed: @code = completed		
		hl7:effectiveTime	TS 01				
		hi7:value		NP			
		hl7:methodCode	CE 01	E	Binding 2.16.840.1.113883.1.11.14079 dynamic		
		 Initiation Initiation	01		Contains 2.16 840.1.113883.3.1937.99.60.5.10.129 TemplateName Systolic blood pressure		
	© 2020-2021 ART-DECOR® VV Vexistab						

Missing functionality for Rules:

- *Template Panel (in Rules) is read-only. This will be extended in the next release in ticket [AD30-36].*
- Template Design Body is yet only almost feature complete, next release will show all properties properly [AD30-61].
- FHIR Profile Panel is in development [AD30-425], an editor is planned for a later release [AD30-429].
- Association is in development [AD30-434].
- Identifiers is in development [AD30-472], functionality is already present in the Project Index, tabs Templates and Profiles.



Issues

The areas in issues are: Issues and Labels

Issues Panel

Issues are listed (paginated) and can be filtered by various switches and filters.

	ART-DECOR®	3.2	🔳 💼 Inte	ernational Patient Summary (IP	PS)							KAI	EN
A	Home		International	Patient Summary (IPS) > Issues									
۵	Project	~	P Se	arch									
	Datasets	~	Status Open	In Progress X 👻	Type Change Request	Incident	× •	Priority		•	Label		•
~~	Scenarios	~	Search by	term	Maximum 75		×	🖬 Date			Assigned To		.
⊕	Terminology	~											
0	Rules	~	Results (6 / 6) NEW ISSUE							•			
		^	Id	Issue		Status	Priority	Ту	rpe	Date	Assignment	Label	
Iss			69	Add ASSERTs for the defined constraints		🛑 Open	Lowest	Cł	hange Request	2017-09-01 16:04:45	Dr. Kai Heitmann	Meds CDA STU1Ballot	
La	bels		105	hI7:doseQuantity examples to be checked	i i	🛑 Open	Low	Cł	hange Request	2017-06-21 15:18:30	Dr. Kai Heitmann	Meds CDA	
Ŧ	Server Admi	~	123	Change proposals for LOINC		🛑 Open	Normal	Cł	hange Request	2017-07-19 10:32:59		TBD Vocab	
-			138	ActStatusActiveCompleted no more used		Open	Normal	Cł	hange Request	2020-05-27 17:49:30			
	Design			Harmonize the approach for the "no info"	cases	Open	Normal	Cł	hange Request	2020-05-27 17:46:27			
			150	qualifier and translation order		🔵 Open	Normal	Cł	hange Request	2020-09-22 11:12:06			
Menü an:	zeigen		© 2020-2021 AF	RF-DECOR® 🛛 🖞 eXistdb									



Issue Labels

Issue labels can be added and maintained including assigning colours and descriptions to the labels. Labels can be associated with issues for optimal change management and maintenance.

		B 3.2	😑 🧰 International Patient Su	mmary (IPS)			KAI	EN	
÷	A Home International Patient Summary (IPS) → Issues → Labels Ø								
۵	Project	~	🗞 Labels			Search	Q	Ð	
	Datasets	~	Name	Code	HTML color	Description	Action	s	
	Scenarios	~	STU1 Ballot	STU1Ballot	#FE8282		:		
⊕	Terminology	~	To be discussed	TBD	#eddc28	Used for filtering issues that should be discussed in the next IPS call(s)	:		
ø	Rules	~	Vocabularies	Vocab	#00ff55		:		
		^	For CCDA consideration	CCDA	#a01111		:		
Is	sues		For eHDSI consideration	eHDSI	#a142f4		:		
La			For IHE consideration	IHE	blue		:		
=	Server Admi	~	Medications	Meds	#F2EE60FF		:		
	Design	~	Allergy	Allergy	green		:		
			CDA Implementation	CDA	#e989a4		:		
			Data Set	DataSet	#dae889		:		
						Rows per page: 10 💌 1-10 of 10	<	>	



Backend API

ART-DECOR 3 supports a powerful, modern backend RESTful API. The ART-DECOR frontend leverages this API, but scripting or third-party add-ons are also made possible.

The ART-DECOR 3 API is documented using OpenAPI 3¹ and presented through Swagger². Privileged actions need authentication using an access token. Any ART-DECOR server has the Swagger UI interface at the following location: [base]/exist/apps/api/. This interface allows inspection and testing of any actions within the limitations of your account where applicable.

All actions support input and output examples, textual documentation and schemas. All actions that support json input/output, also support xml input/output.

ART-DECOR API (III) (III) madutes/iteryterjapo The ART-DECOR API contains RESTLU services for DECOR and Terminolog Terms of service

LOP-J.3.ex-base More stool ANT-DECOR® here	
lanon Titty-Rocalhest1517/renstragoslogi - Local development server 🔹	Authorize 🔒
token Tisten API allows create of authentication tokens	~
ISSUES Inside API allows mad, create, update of DECOR issues and issue labels	~
project Project API allows read, create, update, delete of DECOR project properties.	~
News News API allow retrieval, creation, updating of news items. For example about new features, upcoming maintenance windows etc.	~
metadata Residenti of API meta data	~
IOCKS Looks API allows read, create, delete on DECOR looks	~
datasets DaraserAPI allows mad, create, update on DECOR datasets	~
dataset concepts Dataset concept API allows read, oreats, update on DECOR concepts in DECOR datasets	~
SETVET Server API allows read, create, update of ART-DECOR Server properties	~
servermgmt Server mamagement API allows maintenanceimanagement of functions in the ART-OECOR Server	~
oidregistry OD registry API allows retrieval of OD lists and individual OD's	~
Scenarios Scenario API allows read, oreate, update of DECOR scenarios	~
transactions Transaction API allows read, create, update on DECOR transactions	~
templates TODO Templane API allows med, create, update of DECOR templates	~

The API is organized in sections: Token, project, scenarios, transactions, value sets, code Systems, issues, and more.

A note on terminology: we are re-organizing ART-DECOR in how terminology works internally. The API reflects the progress in this area. The sections *codeSystem* and *valueSet* support DECOR representations, while the section *terminology* represents what has been dubbed Centralized ART-DECOR Terminology Services or CADTS. CADTS currently powers the Browser frontend. More on that to come.

Outlook on what comes next: ART-DECOR[®] – Release 3.3

The current development is on:

- 1. Extend information in details of an artefact (e.g., an inherited concept).
- 2. Adding and cloning of a scenario/transaction.
- 3. Adding and maintaining value sets in terminology.
- 4. Detailed views on Templates in the Rules section.

² See also: <u>https://swagger.io</u>



¹ See specification: <u>https://www.openapis.org</u> and <u>https://swagger.io/specification/</u>