

## Test specification Integration Test API Release 1.2

TC-ID	Testcase	Description	Manual test steps		
<a href="#">TXR-2059</a>	INT_DGCG_upload_dsc	Upload a DSC of a country	Step	Input/Data	Expected Results
			1 create a valid dsc		
			2 upload dsc		dsc is in trustlist
<a href="#">TXR-2060</a>	INT_DGCG_neg_upload_dsc_with_unauthoriz ed_client_certificate	Upload a DSC of a country with an unauthorized client certificate. The response should be with the status code 401 Unauthorized	Step	Input/Data	Expected Results
			1 create a valid DSC		
			2 create custom authentication certificate		
			3 upload DSC with custom client certificate		Error 401 Unauthorized
<a href="#">TXR-2061</a>	INT_DGCG_neg_upload_dsc_with_mismatched _Certificates	Upload a DSC signed with CSCA certificate of a different country. The response code should be 400	Step	Input/Data	Expected Results
			1 create a valid DSC for another country		
			2 upload DSC		Error 400 Bad Request
<a href="#">TXR-2062</a>	INT_DGCG_neg_upload_dsc_wrong_format	Upload a DSC of a country with the wrong format to trigger Error Code 406	Step	Input/Data	Expected Results
			1 upload text instead of DSC		Error 406 Content is not acceptable
<a href="#">TXR-2063</a>	INT_DGCG_neg_upload_duplicate_dsc	Upload a DSC of a country with a UUID which is already in the database. The API should respond with the error Code 409	Step	Input/Data	Expected Results
			1 create DSC		
			2 upload DSC		DSC is in trustlist
			3 upload DSC (again)		Error 409 Conflict
<a href="#">TXR-2065</a>	INT_DGCG_delete_a_dsc	delete DSC of a country	Step	Input/Data	Expected Results
			1 create a valid DSC		
			2 upload DSC		DSC is in trustlist
			3 delete public key created		public key is deleted in trustlist
<a href="#">TXR-2066</a>	INT_DGCG_neg_delete_a_dsc_not_in_databas e	delete a dsc of a country which is not in the database	Step	Input/Data	Expected Results
			1 create a valid DSC		
			2 sign DSC with UPLOAD certificate		
			3 delete DSC created		error 400
<a href="#">TXR-2069</a>	INT_DGCG_neg_delete_a_dsc_with_unauthoriz ed_client_certificate	delete a dsc of a country with a client certificate which is not authorized. The Error code should be 401 "unauthorized"	Step	Input/Data	Expected Results
			1 get trustlist of DSCs		
			2 delete dsc of the own country		Http Error 401 Unauthorized
<a href="#">TXR-2070</a>	INT_DGCG_neg_delete_a_dsc_with_client_cert ificate_of_another_country	delete a DSC of another country with the client certificate not authorized to change DSCs of that country. The error Code should be 403 "Forbidden"	Step	Input/Data	Expected Results
			1 get trustlist of type "DSC"		trustlist with all DSCs
			2 get random dsc from trustlist from another country		
			3 delete dsc from another country		http error 403 forbidden
<a href="#">TXR-2071</a>	INT_DGCG_get_trustlist	Get all trusted certificates	Step	Input/Data	Expected Results
			1 create a valid DSC		
			2 sign DSC with UPLOAD certificate		
			3 check that DSC is not in trustlist		DSC is not in trustlist
			4 upload DSC		
			5 check stat DSC is in trustlist		DSC is in trustlist
			6 delete DSC created		
			7 check that DSC is not in trustlist		DSC is not in trustlist
<a href="#">TXR-2072</a>	INT_DGCG_get_trustlist_with_specific_type	Get all trusted public keys of a specific type	Step	Input/Data	Expected Results
			1 get the trustList just with a specific type	type = CSCA or type = UPLOAD or type = DSC	only certificates with that type should be present
<a href="#">TXR-2073</a>	INT_DGCG_get_trustlist_with_specific_type_an d_country	Get trusted public keys with a specific type (for example CSCA) and country.	Step	Input/Data	Expected Results
			1 get trustList with specific type and country	type=csc country=de	only the trustList data with the type and country is present
<a href="#">TXR-2860</a>		Upload a valid Rule	Step	Input/Data	Expected Results

	INT_DGCG_upload_valid_Rule		1	create a valid Invalidation/Acceptance Rule		
			2	upload Rule		Status Code 200
			3	check that Rule is in Rulelist		Rule is in Rulelist
			4	delete Rule created		
<a href="#">TXR-2861</a>	INT_DGCG_neg_upload_rule_with_unauthenticated_certificate	Upload a Rule with an unauthenticated certificate. There should be an error and the Response Code should be 401.	Step	Input/Data	Expected Results	
			1	create a valid Invalidation Rule		
			2	upload Rule with unauthenticated certificate		Response should have status code 401
			3	check that Rule is not in Rulelist		Rule should not be in Rulelist
<a href="#">TXR-2862</a>	INT_DGCG_neg_upload_rule_with_authentication_certificate_of_another_country	Upload a Rule with a NBTLS certificate of another country. There should be an error and the status code should be 400.	Step	Input/Data	Expected Results	
			1	create a valid Invalidation Rule		
			2	upload Rule with certificate from another country		Error with status Code 400
			3	check that Rule is not in Rulelist		Rule is not in Rulelist
<a href="#">TXR-2863</a>	INT_DGCG_update_Rule_to_a_new_version	Update a Rule created to a new version.	Step	Input/Data	Expected Results	
			1	create a valid Invalidation Rule		
			2	upload Rule		
			3	update Rule to new version		Status Code 200
			4	get Rules of own Country		
			5	check that Rule has the new version		rule has the new Version
			6	delete rule created		
<a href="#">TXR-2864</a>	INT_DGCG_neg_update_Rule_with_lower_version_than_the_old_rule	Update a Rule with a Rule lower than the current version. There should be an error.	Step	Input/Data	Expected Results	
			1	create a valid Invalidation Rule		
			2	upload Rule		
			3	update Rule to new version with lower version number		Response Status Code 400
			4	delete Rule created		
<a href="#">TXR-2865</a>	INT_DGCG_neg_update_Rule_with_version_not_using_semver	Update a Rule without following the semantic versioning scheme (e.g. 1.3 instead of 1.3.0)	Step	Input/Data	Expected Results	
			1	create a valid Invalidation Rule		
			2	upload Rule		
			3	update Rule with version in wrong format		Response Status Code 400
			4	delete Rule created		
<a href="#">TXR-2866</a>	INT_DGCG_get_list_of_onboarded_countries	Get all onboarded countries. Should have at least the own country in the list.	Step	Input/Data	Expected Results	
			1	get all onboarded countries		Response Status Code 200
			2	check that own country is in onboarded countries list		Own Country is in the list
<a href="#">TXR-2867</a>	INT_DGCG_download_all_Rules	Download Rules of all Countries.	Step	Input/Data	Expected Results	
			1	get all onboarded countries		
			2	download rules of all countries		All Responses have status code 200
<a href="#">TXR-2868</a>	INT_DGCG_neg_get_list_of_onboarded_countries_with_unauthenticated_certificate	Get all onboarded countries with unauthenticated certificate. Should lead to an error.	Step	Input/Data	Expected Results	
			1	create custom authentication certificate		
			2	get all onboarded countries with custom certificate		Response Status Code 400
<a href="#">TXR-2869</a>	INT_DGCG_download_Rules_with_unauthenticated_certificate	Get Rules from any country with an unauthenticated NBTLS. Should lead to an error.	Step	Input/Data	Expected Results	
			1	get all onboarded countries		
			2	create custom authentication certificate		
			3	download rules of all countries with custom certificate		all Responses had the status code 400
<a href="#">TXR-2870</a>	INT_DGCG_delete_Rule	Delete a Rule. This should be no problem as Invalidation Rules can be deleted.	Step	Input/Data	Expected Results	
			1	create a valid Invalidation/Acceptance Rule		
			2	upload Rule		

			3	check that Rule is in Rulelist		Rule is in Rulelist
			4	delete Rule created		Response had no errors
			5	check that Rule is not in Rulelist		Rule is not in Rulelist
<a href="#">TXR-2872</a>	INT_DGCG_neg_delete_Rule_of_another_country	Delete a Rule of another country. This should not be possible.		Step	Input/Data	Expected Results
			1	create a valid Invalidation/Acceptance Rule		
			2	upload Rule		
			3	check that Rule is in Rulelist		Rule is in Rulelist
			4	delete Rule created with certificate of another country		Response should have an error status code
			5	check that Rule is in Rulelist		Rule is in Rulelist
			6	delete Rule		
<a href="#">TXR-2873</a>	INT_DGCG_neg_delete_Rule_with_unauthenticated_NBTLS	Delete a Rule with unauthenticated certificate. This should not be possible.		Step	Input/Data	Expected Results
			1	create a valid Invalidation/Acceptance Rule		
			2	upload Rule		
			3	check that Rule is in Rulelist		rule is in Rulelist
			4	create custom authentication certificate		
			5	delete Rule created with custom client certificate		response status code should be an error status code
			6	check that Rule is in Rulelist		Rule is in Rulelist
			7	delete Rule created		
<a href="#">TXR-2874</a>	INT_DGCG_delete_Rule_not_in_database			Step	Input/Data	Expected Results
			1	delete Rule not in rulelist		Response status code should be an error status code
<a href="#">TXR-2875</a>	INT_DGCG_neg_upload_Rule_with_uploader_country_in_wrong_format	Country attribute in a Rule should be like "en". Otherwise there should be an error		Step	Input/Data	Expected Results
			1	create a valid Invalidation/Acceptance Rule		
			2	change countrycode to a wrong format		
			3	upload Rule		response Code should be 400
			4	check that Rule is not in Rulelist		Rule is not in Rulelist
<a href="#">TXR-2876</a>	INT_DGCG_neg_upload_rule_with_wrong_uploader_country	Upload a Rule from another country. There should be an error.		Step	Input/Data	Expected Results
			1	create a valid Invalidation/Acceptance Rule		
			2	change countrycode to a wrong country		
			3	upload Rule		Response Code should be 403
			4	check that Rule is not in Rulelist		
<a href="#">TXR-2877</a>	INT_DGCG_neg_upload_acceptance_rule_with_ValidFrom_less_than_48h_in_the_future	Upload an Acceptance Rule which is valid ealier than 48h. There should be an error.		Step	Input/Data	Expected Results
			1	create a valid Acceptance Rule		
			2	change ValidFrom less than "48"h		
			3	upload Rule		Error with the http status code "400"
			4	check that Rule is not in Rulelist		
<a href="#">TXR-2878</a>	INT_DGCG_neg_upload_rule_with_ValidTo_less_than_120h_in_the_future	Upload a Rule which is valid less than 72h. There should be an error.		Step	Input/Data	Expected Results
			1	create a valid Acceptance Rule		
			2	change ValidTo less than "120"h		
			3	upload Rule		Error with http status code "400"
			4	check that Rule is not in Rulelist		Rule is not in Rulelist
<a href="#">TXR-2879</a>	INT_DGCG_neg_upload_rule_with_description_not_available	A Rule must have a description. An empty description should be an error.		Step	Input/Data	Expected Results
			1	create a valid Invalidation/Acceptance Rule		
			2	remove description of the Rule		
			3	upload Rule		Response http status code should be "400"
			4	check that Rule is not in Rulelist		Rule is not in Rulelist

<a href="#">TXR-2880</a>	INT_DGCG_neg_upload_rule_with_description_filled_with_one_language_without_english	A Rule must have a description in english. Only having a description in another language should be an error	Step	Input/Data	Expected Results
			1 create a valid Invalidation/Acceptance Rule		
			2 use only german in the description of the Rule		
			3 upload Rule		Response should have status code "400"
			4 check that Rule is not in Rulelist		Rule should not be in Rulelist
<a href="#">TXR-2881</a>	INT_DGCG_neg_upload_rule_with_description_having_an_invalid_language	Languages of a Rule should have the formatting like "en" or "en-uk". Otherwise there should be an error.	Step	Input/Data	Expected Results
			1 create a valid Invalidation/Acceptance Rule		
			2 add language "en-" in description		
			3 upload Rule		Response http status code should be "400"
			4 check that Rule is not in Rulelist		Rule is not in Rulelist
<a href="#">TXR-2882</a>	INT_DGCG_neg_upload_rule_which_version_doesn't_follow_semVer	Rule Version should be created with semantic versioning (like "1.2.3" and not like "1.2"). Otherwise there should be an error.	Step	Input/Data	Expected Results
			1 create a valid Invalidation/Acceptance Rule		
			2 set version of the Rule to "10"		
			3 upload Rule		Response status code should be "400"
			4 check that Rule is not in Rulelist		Rule should not be in Rulelist
<a href="#">TXR-2883</a>	INT_DGCG_neg_upload_rule_which_schema_version_doesn't_follow_semVer	Rule Schema Version should be created with semantic versioning (like "1.2.3" and not like "1.2"). Otherwise there should be an error.	Step	Input/Data	Expected Results
			1 create a valid Invalidation/Acceptance Rule		
			2 set version of the schema to "10"		
			3 Upload Rule		Response http status code should be "400"
			4 check that Rule is not in Rulelist		Rule is not in Rulelist
<a href="#">TXR-2884</a>	INT_DGCG_Updating_a_rule_automatically_removes_the_old_version	After a rule is updated and valid the old rule should not be in the downloaded list.	Step	Input/Data	Expected Results
			1 create a valid Invalidation Rule		
			2 upload Rule		Response doesn't have errors
			3 Update Rule with new Version with ValidFrom 10 Seconds in the future		Both Versions should be in Rulelist
			4 Wait for 10 Seconds		Only the new Version should be in Rulelist
<a href="#">TXR-2885</a>	INT_DGCG_get_all_valuesets	Get All Valuesets. Response code should be 200.	Step	Input/Data	Expected Results
			1 get all valuesets		Check that Response is not Empty and has Response Code 200
<a href="#">TXR-2886</a>	INT_DGCG_get_specifig_Valueuset	Get data of a specific Valueuset. The test first downloads all Valuesets and then checks if it can download the specifir Valueuset.	Step	Input/Data	Expected Results
			1 get all valuesets		
			2 get details of first Valueuset in list		Response is not empty and has no errors
<a href="#">TXR-2887</a>	INT_DGCG_get_valueuset_with_unauthenticated_NBTLS		Step	Input/Data	Expected Results
			1 create custom authentication certificate		
			2 get all valuesets with custom certificate		Response http status code should be "401"
<a href="#">TXR-3004</a>	INT_DGCG_neg_upload_rule_with_the_Identifier_of_another_Country	Upload a Rule with the Identifier of another Country	Step	Input/Data	Expected Results
			1 create a valid Invalidation/Acceptance Rule		
			2 change countrycode in Identifier to a wrong country		
			3 upload Rule		Response should have Status Code 403
<a href="#">TXR-3005</a>	INT_DGCG_neg_Value_of_ValidFrom_must_be_before_value_of_ValidTo	Value of ValidFrom must be before value of ValidTo	Step	Input/Data	Expected Results
			1 create a valid Invalidation/Acceptance Rule		
			2 set ValidFrom after ValidTo value		
			3 upload Rule		Response Status Code should be 400
<a href="#">TXR-3006</a>		Value of ValidFrom must be within 2 weeks from today	Step	Input/Data	Expected Results

	INT_DGCG_neg_Value_of_ValidFrom_must_be_within_2_weeks_from_today		1	create a valid Invalidation/Acceptance Rule		
			2	set ValidFrom more than "14" days in the future		
			3	upload Rule		Response Code should be 400
<a href="#">TXR-3007</a>	INT_DGCG_neg_Value_of_ValidFrom_must_be_in_future_of_today	Test that the Gateway responds with an error message if the ValidFrom Value is not in the Future	Step	Input/Data	Expected Results	
			1	create a valid Invalidation Rule		
			2	change ValidFrom less than "0"h		
			3	upload Rule		Response Status Code should be 400
<a href="#">TXR-3031</a>	INT_DGCG_neg_upload_rule_with_description_text_length_smaller_than_20_characters	A Rule must have a description. Those descriptions must have a length of at least 20 characters.	Step	Input/Data	Expected Results	
			1	create a valid Invalidation/Acceptance Rule		
			2	change description to have less than "20" characters		
			3	upload Rule		Response Code should be 400
<a href="#">TXR-3032</a>	INT_DGCG_update_Rule_to_a_new_version_and_ValidFrom_later_than_old_rule	Update a Rule created to a new version and ValidFrom value later than old rule. In the end both Versions of the rule should be downloaded.	Step	Input/Data	Expected Results	
			1	create a valid Invalidation/Acceptance Rule		
			2	upload Rule		
			3	change Rule to new version		
			4	upload Rule		Response Code should be "201"
			5	check that Rule has the new version		Rule has the new Version
			6	check that both versions of the rule exist		both versions of the rule exist
<a href="#">TXR-3090</a>	INT_DGCG_neg_upload_rule_with_CertificateType_not_matching_Rule_Identifier	Upload a Acceptance Rule where the CertificateType is not matching the Rule Identifier of the Rule. The Response code should be 400	Step	Input/Data	Expected Results	
			1	Create a valid Acceptance Rule		
			2	change CertificateType to be invalid	If Rule Identifier is like "VR-..." the CertificateType should be changed to "General" and else to "Vaccination"	
			3	upload Rule		Response Code should be 400
<a href="#">TXR-3199</a>	INT_DGCG_delete_Rule_with_alias_endpoint	Delete a Rule by using the POST endpoint. This is used so that a body can be used in a POST request instead of a DELETE request.	Step	Input/Data	Expected Results	
			1	create a valid Invalidation/Acceptance Rule		
			2	upload Rule		
			3	check that Rule is in Rulelist		Rule is in Rulelist
			4	delete Rule using alias Endpoint		Response had no errors
			5	check that Rule is not in Rulelist		Rule is not in Rulelist
<a href="#">TXR-3200</a>	INT_DGCG_delete_a_dsc_with_alias_endpoint	Delete a DSC certificate of a country by using the POST endpoint. This is used so that a body can be used in a POST request instead of a DELETE request.	Step	Input/Data	Expected Results	
			1	create a valid DSC		
			2	upload DSC		DSC is in trustlist
			3	delete public key created using alias Endpoint		public key is deleted in trustlist
<a href="#">TXR-3209</a>	INT_DGCG_upload_valid_Rule_with_cms_header	The content type header of rules normally in the test is "application/cms-text" but it can also be "application/cms" like for the certificates	Step	Input/Data	Expected Results	
			1	create a valid Invalidation/Acceptance Rule		
			2	upload Rule with cms header		Status Code 200
			3	check that Rule is in Rulelist		Rule is in Rulelist
			4	delete Rule created		

<a href="#">TXR-3213</a>	INT_DGCG_RAT_valueset_equal_to_JRE_data base	The National Backend should update the RAT Valuesets from the JRC database.	Step	Input/Data	Expected Results
			1 get RAT Valuesets from JRC database		
			2 get RAT Valuesets from Gateway		
			3 check that RAT Valuesets from JRC database and Gateway match		all Values of JRE Database are in Gateway and are marked active if they are in the common List
<a href="#">TXR-4524</a>		Regression test of the creation of the QR-codes for TEST-, VAC- and REC-certificates with the available value-sets . This test includes the visible check of the value-sets on the distribution-service on TST-Environment ( <a href="https://dgca-businessrule-service-eu-test.cfapps.eu10.hana.ondemand.com/valuesets/">https://dgca-businessrule-service-eu-test.cfapps.eu10.hana.ondemand.com/valuesets/</a> ) too: Visible check, that the extension-option "Valid-Until-Field" is at least a.)- used  b.)- notused by one value set.	Step	Input/Data	Expected Results
			1 open the data entry mask		Data Entry Mask is shown
			2 insert Family name in textfield "Family name"		"Family name" is shown in textfield
			3 insert given name in textfield "Given name"		"Given name" is shown in textfield
			4 Choose Date of Birth Format		The textfield of DOB changes its format according to the choosen format
			5 insert date of birth in textfield with picker 'Date of Birth'		date is shown in textfield
			6 insert "Disease/Agent*" in textfield Disease/Agent*		"Disease/Agent*" is shown in textfield. All entries/values correspond to the actual version of the document "EU eHealthNetwork: Value Sets for Digital Covid Certificates. version 1.0, 2021-04-16, section 2.1"  Actual: "COVID-19"
			7 choose vaccination type in combo box 'Vaccine/Prophylaxis*'		vaccination type is shown textfield. All actual entries/values: SARS-CoV-2 antigen vaccine SARS-CoV-2 mRNA vaccine covid-19 vaccines
			8 choose medical product in combo box 'Medicinal Product*'		medical product is shown in textfield. All entries/values correspond to the actual version of the document "EU eHealthNetwork: Value Sets for Digital Covid Certificates. version 1.0, 2021-04-16, section 2.3"  Actual at least: Comirnaty COVID-19 Vaccine Moderna Vaxzevria COVID-19 Vaccine Janssen CVnCoV NVX-CoV2373 Sputnik V Convidecia EpiVacCorona BBIBP-CorV Inactivated SARS-CoV-2 (Vero Cell) CoronaVac Covaxin (also known as BBV152 A, B, C)
			9		Organisations Management System is shown in textfield.

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	choose Organisations Management System* in combo box 'Organisations Management System*'	All entries/values correspond to the actual version of the document "EU eHealthNetwork: Value Sets for Digital Covid Certificates. version 1.0, 2021-04-16, section 2.4"
		Actual at least: AstraZeneca AB Biontech Manufacturing GmbH Janssen-Cilag International Moderna Biotech Spain S.L. Curevac AG CanSino Biologics China Sinopharm International Corp. - Beijing location Sinopharm Weiqida Europe Pharmaceutical s.r.o. - Prague location Sinopharm Zhijun (Shenzhen) Pharmaceutical Co. Ltd. - Shenzhen location Novavax CZ AS Gamaleya Research Institute Vector Institute Sinovac Biotech Bharat Biotech
10	insert dose number in Textfield "Dose Number*"	dose number is shown in textfield. All entries/values corresponds to the actual version of the document "EU eHealthNetwork: Value Sets for Digital Covid Certificates. version 1.0, 2021-04-16, section 2.5". The value has to be less or equal to the total series of doses.
11	insert total series of doses in Textfield "Total Series of Doses*"	total series of doses is shown in textfield. All entries/values corresponds to the actual version of the document "EU eHealthNetwork: Value Sets for Digital Covid Certificates. version 1.0, 2021-04-16, section 2.5"
12	insert vaccination date in textfield with picker 'vaccination date'	vaccination date is shown in textfield
13	choose Issuer country in combo box 'Issuer Country*'	issuer country is shown in textfield. All entries/values should correspond to ISO 3166 Country Codes (2-letter codes).
14	insert certificate issuer in textfield "Certificate Issuer*"	Certificate Issuer is shown in textfield
15	push "next" button	QR-code will be generated with inserted data
16	Repeat the test with all fields to fill in for the certificate of type "TEST"	QR-Code for the type TEST is generated correctly with all data filled in.
17	Repeat the test with all fields to fill in for the certificate of type "RECOVERY"	QR-Code for the type RECOVERY is generated correctly with all data filled in.
18	<a href="https://dgca-businessrule-service-eu-test.cfapps.eu10.hana.ondemand.com/valuesets/">Visible check on TST-Environment (here for TST-environment: https://dgca-businessrule-service-eu-test.cfapps.eu10.hana.ondemand.com/valuesets/).</a>	The result of the check can be confirmed as described in step 18

			that the extension-option "Valid-Until-Field" is at least a.)- used b.)- notused by one value set.		described in step 10.
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