Test specification E2E OAT

TC-ID	Testcase	Description	Manual test steps			
TXR-2013	INT_IssApp_Start_WebApp	Open the WebApp in Browser		Step	Input/Data	Expected Results
			1	Open Browser	https://dgca-issuance-web.cfapps.eu10.hana.ondemand.com	WebApp is starting
TXR-2017	INT_IssApp_Create_QR-Code	Insert relevant Data in Issuer App. Send inserted Data to national backed.		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	insert date of birth in textfield with picker 'Date of Birth'		date is shown in textfield
			5	insert "Disease/Agent*" in textfield Disease/Agent*		"Disease/Agent*" is shown in textfield
			6	choose vaccination type in combo box 'Vaccine/Prophylaxis*'		vaccination type is shown textfield
			7	choose medical product in combo box 'Medicinal Product*'		medical product is shown in textfield
			8	choose Organisations Management System* in combo box 'Organisations Management System*'		Organisations Management System is shown in textfield
			9	insert dose number in Textfield "Dose Number*"		dose number is shown in textfield
			10	insert total series of doses in Textfield "Total Series of Doses*"		total series of doses is shown in textfield
			11	insert vaccination date in textfield with picker'vaccination date'		vaccination date is schown textfield
			12	choose Issuer country in combo box 'Issuer Country*'		issuer country is shown in textfield
			13	insert certificate issuer in textfield "Certificate Issuer*"		Certificate Issuer is shown in textfield
			14	push "next" button		QR-code will be generated with inserted data
TXR-2019	INT_IssApp_Request_signed_QR-Code	send unsigned QR-code to national Backend, which signs it and send it back to the Issuer App. The signed QR-code will be displayed on screen		Step	Input/Data	Expected Results
			1	Send created QR-Code to national backend via "finish process" button		QR-Code will be send - national backend returns signed QR-Code
TXR-2020	INT_IssApp_Print_signed_QR-Code	print the QR-code/vaccination certificate with included print service(?)		Step	Input/Data	Expected Results
			1	Create signed QR-code		signed QR-code created
			2	Push the "Create PDF" Button		A PDF document is created and downloaded with all necessary dates
TXR-2028	INT_WalletApp_Citizen_scans_QR-Code	scann the QR-code with the wallet app		Step	Input/Data	Expected Results
			1	open the (internal) QR-codescanner via "scan code"		QR-codescanner starts
			2	position the QR-Code under the camera		QR-code is displayed sharply
TXR-2029	INT_WalletApp_shows_the_certificate_on_mobile_device	show the saved certificate on mobile device within the details of the data		Step	Input/Data	Expected Results
			1	open the internal storage		all scanned QR-codes will be listed
			2	Choose one QR-code		QR-code will be displayed on screen
TXR-2032	INT_WalletApp_biometric_security	on Start the WalletApp a biometric request has to start. To be		Step	Input/Data	Expected Results

		sure that a verified person get access to WalletApp Data	1	open WalletApp on Mobile Device		biometric data are requested
			2	scan your biometric data		WalletApp starts
TXR-2033	INT_WalletApp_negative_biometric_security	on Start the WalletApp a biometric request has to start. To be sure that a verified person get access to WalletApp Data		Step	Input/Data	Expected Results
			1	open WalletApp on Mobile Device		biometric data are requested
			2	scan wrong biometric data		Error: Access denied
TXR-2075	INT_VERIAPP_verify_qr_code_for_a_valid_dgc	A Digital Green Certificate with: 1) a valid QR Code; 2) valid Payload; 3) valid Attributes. is presented for offline verification. The Verifier App confirms that the DGC is valid. It also tests that the same DGC can be verified twice by the same VeriApp instance.		Step	Input/Data	Expected Results
			1	VeriApp scans QR-Code.		QR-Code is approved as verified.
			2	VeriApp scans the same QR-Code for a second time.		QR-Code is again approved as verified.
TXR-2077	INT_VERIAPP_neg_verify_qr_code_with_invalid_signature	A Digital Green Certificate (DGC) with invalidly signed QR-Code is presented for offline verification. The Verifier App evaluates the DGC as invalid.		Step	Input/Data	Expected Results
			1	VeriApp scans QR-Code.		The VeriApp evaluates the DGC as invalid.
TXR-2079	INT_VERIAPP_neg_verify_qr_code_with_invalid_payload_syntax	A Digital Green Certificate with correct signature but syntactically invalid payload (e.g. missing name etc.) is presented for verification. The signature is validated but the DGC is evaluated as invalid due to invalid Payload. An Error Code "Invalid Payload" is returned.		Step	Input/Data	Expected Results
			1	VeriApp scans QR-Code.		QR-Code signature is approved as valid.
			2	VeriApp reads payload.		The DGC is evaluated as invalid. An Error Code "Invalid Payload" is shown.
TXR-2084	INT_VERIAPP_render_dgc_for_type_PCRtest	A validly signed Digital Green Certificate of type (PCR) TEST is presented for verification. The testcase tests presentation of the DGC Data for the DGC of type test, independently of test result (postive or negative).		Step	Input/Data	Expected Results
			1	VeriApp scans QR-Code.		The DGC is approved as valid and the Contents Data is presented for type TEST. The content is preseneted as a positive or negative quick test.
TXR-2085	INT_VERIAPP_render_dgc_for_type_vac	A valid Digital Green Certificate of type VAC (owner has been vaccinated) is presented for verification. The testcase tests presentation of the DGC Data.		Step	Input/Data	Expected Results
			1	VeriApp scans QR-Code.		The DGC is approved as valid and the Contents Data is presented for type VAC.
TXR-2086	INT_VERIAPP_render_dgc_for_type_rec	A valid Digital Green Certificate of type REC (owner has recovered) is presented for verification. The testcase tests presentation of the DGC Data.		Step	Input/Data	Expected Results
			1	VeriApp scans QR-Code.		The DGC is approved as valid and the Contents Data is presented for type REC.
TXR-2087	INT_VERIAPP_fetch_an_use_manually_triggered	The Verifier App has to support the manual triggering of the synchronisation process.		Step	Input/Data	Expected Results
			1	The VerifierApp has been installed. Internet connection is available. It has been less than 24 hours since the last synchronisation. The user triggers the synchronisation manually.		A Synchronisation process has been triggered and the keys have been updated.
TXR-2088	INT_VERIAPP_fetch_and_use_resynchronise_after_offline_state	This testcase examines the case where no synchronisation has taken place in the last 24 hours due to missing internet connection. As soon as the internet connection is available again, the verifier app should initiate synchronisation.		Step	Input/Data	Expected Results
			1	The VerifierApp has been installed and at it is has been 24 hours since the installation.		A Synchronisation process has been triggered and the keys have been updated within the last 24 hours.

			2	After the synchronisation has been done, the internet is switched off for at least 24 hours.		No synchronisation of the keys database could take place.
			3	The internet connection is available again.		The verifier app initiates synchronisation (fetch and use) within the next 24 hours.
TXR-2089	INT_VERIAPP_fetch_an_use_daily_synchronisation	The Verifier App has to synchronise its public key database daily with the backend. Internet Connection is available.		Step	Input/Data	Expected Results
			1	The VerifierApp has been installed and at it is has been 24 hours since the installation.		A Synchronisation process has been triggered and the keys have been updated within the last 24 hours.
TXR-2094	INT_VERIAPP_render_dgc_for_test_result_positive	A validly signed Digital Green Certificate of type POSITIVE TEST (owner has tested positive) is presented for verification. The testcase tests presentation of the DGC Data.		Step	Input/Data	Expected Results
			1	VeriApp scans QR-Code.		The DGC is read and a positive test result is displayed.
TXR-2103	INT_WalletApp_register_QR-Code_with_TAN	The QR-code is only allowed to save on one device. Therefor the citizen gets a TAN wich can be used only one time. After the registration, the TAN can't be used twice.		Step	Input/Data	Expected Results
			1	scann QR-code with integrated barcode-scanner		Barcode will be shown on screen
			2	push save button		TAN will be requested
			3	insert valid TAN		scanned QR-code will be saved
TXR-2105	INT_WalletApp_start_WalletApp_with_PIN	If the citizen has no biometric data on his mobile device it shoul be possible to start the device by PIN		Step	Input/Data	Expected Results
			1	start the WalletApp on mobile device		biometric data are requested
			2	user push cancel		a user PIN is requested
			3	insert the correct PIN		WalletApp starts
TXR-2106	INT_WalletApp_negative_register_QR-Code_with_TAN_-_TAN_expired	The QR-code is only allowed to save on one device. Therefor the citizen gets a TAN wich can be used only once for a defined time after creation. (Expirationtime has to be defined) After this time, the TAN can't be used anymore.		Step	Input/Data	Expected Results
			1	scann QR-code with integrated barcode-scanner		Barcode will be shown on screen
			2	push save button		TAN will be requested
			3	insert expired TAN		An error occurred: TAN expired QR-code will not be saved
TXR-2107	INT_WalletApp_negative_register_QR-Code_with_TAN _wice	The QR-code is only allowed to save on one device. Therefor the citizen gets a TAN wich can be used only one time. After the registration, the TAN can't be used twice.		Step	Input/Data	Expected Results
			1	scann QR-code with integrated barcode-scanner		Barcode will be shown on screen
			2	push save button		TAN will be requested
			3	insert valid TAN a seconed time		an error occurred: TAN can't be used twice
TXR-2113	INT_IssApp_Create_corrected_QR-Code	Insert relevant Data in Issuer App with wrong birthdate. Start creation of QR-code. Get QR-code with wrong birthday. proof data in QR-code and find the misstake. correct birthday in Issuer App and create new QR-code.		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	insert wrong date of birth in textfield with picker 'Date of Birth'		date is shown in textfield
			5	insert "Disease/Agent*" in textfield Disease/Agent*		"Disease/Agent*" is shown in textfield
			6	choose vaccination type in combo box 'Vaccine/Prophylaxis*'		vaccination type is shown textfield

			7	choose medical product in combo box 'Medicinal Product*'		medical product is shown in textfield
			8	choose Organisations Management System* in combo box 'Organisations Management System*'		Organisations Management System is shown in textfield
			9	insert dose number in Textfield "Dose Number*"		dose number is shown in textfield
			10	insert total series of doses in Textfield "Total Series of Doses*"		total series of doses is shown in textfield
			11	insert vaccination date in textfield with picker'vaccination date'		vaccination date is schown textfield
			12	choose Issuer country in combo box 'Issuer Country*'		issuer country is shown in textfield
			13	insert certificate issuer in textfield "Certificate Issuer*"		Certificate Issuer is shown in textfield
			14	push "next" button		QR-code will be generated with inserted data
			15	push "next" button		QR-code will be generated with inserted data
			16	check the inserted data		wrong birthday is shown
			17	push "correct patient data" button		inserted data will be shown in data entry mask
			18	edit birthday field and insert correct birtday		corrected birtday is shown
			19	push "next" button		QR-code will be generated with corrected data
TXR-2182	INT_VERIAPP_render_dgc_for_test_result_negative	A validly signed Digital Green Certificate of type Negative TEST (owner has tested negative) is presented for verification. The testcase tests presentation of the DGC Data.		Step	Input/Data	Expected Results
			1	VeriApp scans QR-Code.		The DGC is read and a negative test result is displayed.
TXR-2187	INT_WalletApp_valid_TAN_which_does_not_belong_to_this_qr-code	Issuer has created two different QR-codes. Each with valid TAN. He gave citizen A qr-code A with with valid TAN to qr-code B. He gave citizen B qr-code B with with valid TAN to qr-code A. So, we have A valid TAN which belongs to an other valid QR-code.		Step	Input/Data	Expected Results
			1	scann QR-code with integrated barcode-scanner		Barcode A will be shown on screen
			2	push save button		TAN will be requested
			3	insert valid TAN B which does not belong to this qr-code (dgci)		TAN B will be accepted by wallet app
			4	send data to national backend		national backend will proof the data and returns an error to wallet app
			5	get error code from national backend		qr-code will not be saved
TXR-2205	INT_WalletApp_start_WalletApp_with_wrong_PIN	If the citizen has no biometric data on his mobile device it shoul be possible to start the device by PIN		Step	Input/Data	Expected Results
			1	start the WalletApp on mobile device		pin is requested instead of biometric data. Only works when no biometric data are saved
			2	insert the wrong PIN		WalletApp shows an error