

INFORMATION TECHNOLOGIES FOR SHIFT TO RAIL

D5.6 – Travel companion Final Integration Report

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EXECUTIVE SUMMARY

This document is the integration report of the Travel Companion for the Final Release. The test cases shown below cover all the published services in order to expose the success result and one failure case per service. Then, it details all the test cases including the results for the run of the test campaign.

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INTRODUCTION

The objective of the F-Rel test strategy is to thoroughly validate the functionalities developed for the last release. In particular, the tests concern the functionalities of the client application and the calls that can be made to all relevant web services, either to Travel Companion Cloud or to other WPs. The goals of the tests are:

- To check that the components developed within WP5 can work together coherently. For instance, to check that we can search an offer after a login, or after creating an account. Hence, test scenarios are designed by chaining atomic operations together, such as searching for an offer, logging in, or setting a preference.
- To check the coherence between the specification of the web services and their implementation (if a web service is not compliant with its interface contract, using it in the client application can become impossible).
- To test the availability of web services for external clients.

Our test campaign will also investigate, if possible, error conditions for web services (e.g., the creation of an account associated with an already existing email).

The tests presented in this document focus on the Travel companion, and should not be considered as integration tests for other WPs. In particular, we will not carry out any stress tests for these web services.

1. TEST MATERIALS DESCRIPTION

1.1 CONFIGURATION OF THE WP5 PERSONAL APPLICATION

In this section we detail the configuration of the client side, which is in this case a mobile device with the Personal Application, used to carry out the test scenarios in practice.

1.1.1 Infrastructure and Hardware

An Android mobile device, compatible with Android 6.0. This device must be able to access a 4G network.

1.1.2 Setup & configuration

The device does not need any special configuration, besides having the Travel Companion Personal Application installed. The only requirement is for the mobile device to be able to run a test version of the application). The following should be verified to enable installation of the application:

- The operation system must be configured in development mode. For this, “Unknown sources” checkbox should be enabled on the device in order to install non-Market applications. To enable or disable it on Samsung devices: “Settings” → “Security” → “Tap Unknown sources checkbox”, The location of this checkbox can be different in other models, but it’s always in the Settings.
- Before installing a new version of the app, uninstall the current app from the device to avoid conflicts.
- Ensure that the downloaded apk location is not on the SD Card, if yes try to move it to the device memory, and install it from there.

The following configuration is used for the SNCF module, in the strings.xml file:

```
<resources>

<!-- mode demo for Identity APIs: Login & Create account -->
<string name="identity_demo">false</string>
<!-- mode demo for Mobility Request API -->
<string name="mobility_request_demo">false</string>
<!-- mode demo for Location Identifier API -->
<!-- <string name="location_identifier_demo">false</string>-->
<!-- mode demo for Start Tracking API -->
<string name="start_tracking_demo">false</string>
<!-- mode demo for Alert Manager API: setDeviceId, getMessage-->
<string name="alert_manager_demo">false</string>
<!-- mode demo for Booking API-->
<string name="booking_demo">false</string>
```

```
<!-- mode demo for Payment API-->
<string name="payment_demo">true</string>

<!-- local server url-->
<string name="base_identity_url">http://173.27.0.5:8080/idmanager/</string>
<!-- mobility request V1 C-rel-->
<string name="base_mobility_request_url">http://185.54.152.72:99/</string>
<!-- mobility request V2-->
<!--<string name="base_mobility_request_url">http://185.54.152.72:8096/</string>-->
<string
name="base_location_identification_url">http://192.168.150.139:8080/</string>
<string name="base_alert_tracking_url">http://85.93.98.205:8080/api/</string>
<!-- local server url-->
<!--
name="base_alert_manager_url">http://10.0.2.2:8080/alertmanager/</string>-->
<string
name="base_alert_manager_url">https://173.27.0.5:8443/AccessManagerWP5/</string>

</resources>
```

1.1.3 Tested system

Travel Companion Personal Application, version [ITR-WP5-PA A69 -70 2018-04-04.apk](#).

1.1.4 System data parameters

NA

1.1.5 Simulators

No Android simulators are used, as there may be some subtle differences compared to the behaviour of a real phone.

1.1.6 Personnel

NA

1.2 CONFIGURATION OF THE WP5 CLOUD

In this section we detail the configuration of the Travel Companion Cloud, i.e., which constitutes the server side of the application, as it is deployed in the integration environment provided by Indra for this IT2RAIL POC.

1.2.1 Infrastructure and Hardware

The Cloud environment is made of connected servers based on Linux CentOS 6.7 (64 bits). The Cloud is based on a Wildfly v8.1 Application Server. The data layer includes a PostgreSQL database to store user information.

1.2.2 Setup & configuration

One requirement is related to remote access to the cloud, being essential to use a VPN client to connect to it in order to ensure environment security. VPN connection supports SSL connection and IPsec and it is possible to access VPN throughout java code using a Runtime call to execute Linux commands.

To get credentials contact INDRA Team. The configuration of the VPN on the mobile device is described in a document provided by Indra along with the credentials (WP5_VPN_Integration).

In addition, the IDManager module has configuration files to stub the WalletManager API, in particular to activate/deactivate the authorization checks, and to define the access rights profiles: see README file for details. Note: in F-rel, the userIDToken validity is a fixed value of 2 hours (except for Trip Tracking, which validity is of 90 days and Booking which validity is of 180 days).

The AlertManager has configuration files in particular to configure the GCM service, with a url, an API server key (for notification push via GCM) and an expiration delay of the messages.

1.2.3 Tested system

The following modules of the Travel Companion Cloud are tested:

- Access Manager, which manages all the interfaces between the travel companion cloud and WP5 modules (such as the Travel Companion smart device) as well as other WPs.
- Wallet manager, which deals with the data layer.
- ID Manager.
- Alert Manager.
- Preferences manager.
- Travel Manager (Entitlements and Tokens).
- Payment Module.

1.2.4 System data parameters

NA

1.2.5 Simulators

No simulators are needed for complete integration tests, since all modules interacting with the tested ones are operative and the interface contracts have been defined before the definition of the test cases. However, SOAP UI, and Postman have been defined as simulators for testing cloud responses in case of interface failure or to simulate stimulations from other workpackages (e.g. an alert message sent by WP4).

1.2.6 Personnel

NA

2. TEST EXECUTION

This is the final F-rel tests execution by SNCF, Indra, Hacon, Leonardo and The PA tests have been executed on a Samsung Galaxy S7 device (SM-G930F) equipped with Android version 6.0.1 and a One Plus 2 equipped with Android version 6.0.1. and the CW tests have been executed using a simulator (SoapUI).

2.1 FUNCTIONAL PA TESTS

These tests are those that are directly inspired by the specifications.

2.1.1 WP5 Account Creation & Preferences

WP5-TC01 Account Creation & Preferences	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the user can create an account, and that he is connected after the account creation. Once the application is closed, the user needs to login before accessing any personal data. Set Preferences to check in the next test case that is has been registered.
Description	The user will create an account, set the associated preferences, and then closes the application, with no access to personal information anymore.
Status	Success
% passed	100%

Normal Client Configuration	
Regression	None
Test Case Tester	Gabriel Virette (SNCF)

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - Application installed on the device				
1	Account Creation : Tester launches the application, then goes to the create account screen. Tester creates an account: he sets for example francesca@it2rail.fr in login field, testpwd in the password field.	Create account confirmation message in the application (demonstration) Tester sent to the Homepage	The account is created, and the message is displayed accordingly	Success	None
2	Preference Setting, tester goes to the preferences screen, and sets some preferences: <ul style="list-style-type: none"> Preferred mode of transportation: Train, Bus (5 stars) Preferred carrier : Trenitalia (5 stars), SNCF (5 stars) 	Preferences changed on screen (demonstration)	Preferences are displayed on the screens according to the user's choice. They	Success	Bugs may occur with some users. (no drop down boxes for preferences)

	<ul style="list-style-type: none"> • Class: economy • Payment card: Visa, MasterCard • PRM: person carrying a carrycot • Trip Tracking: automatic trip tracking 		are kept in memory after logging out and are retrieved upon reconnection		for example).
3	Close the application: Tester closes the application (not only hides it)	Back to the mobile menu	Compliant	Success	None
4	Opens the application	The application starts with the login page, with no access to personal information	Compliant	Success	None

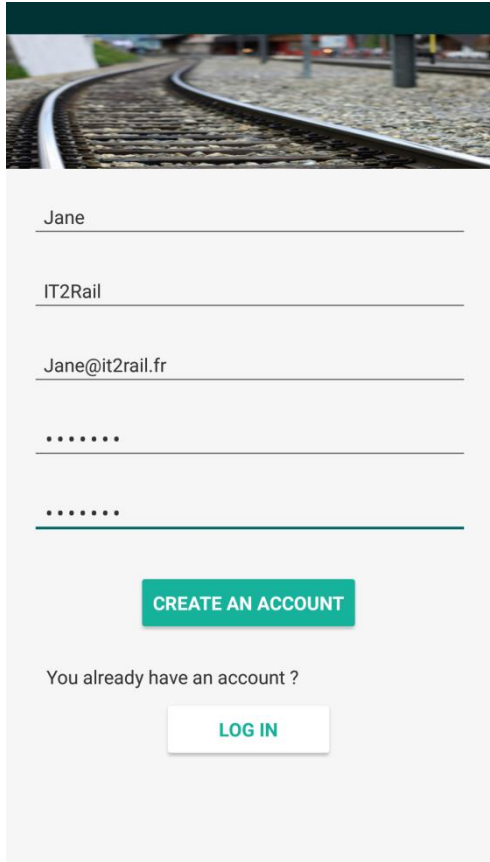
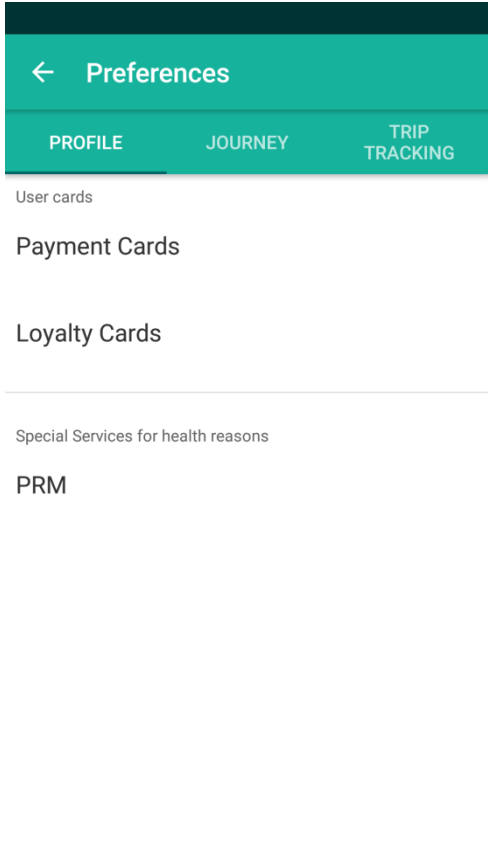
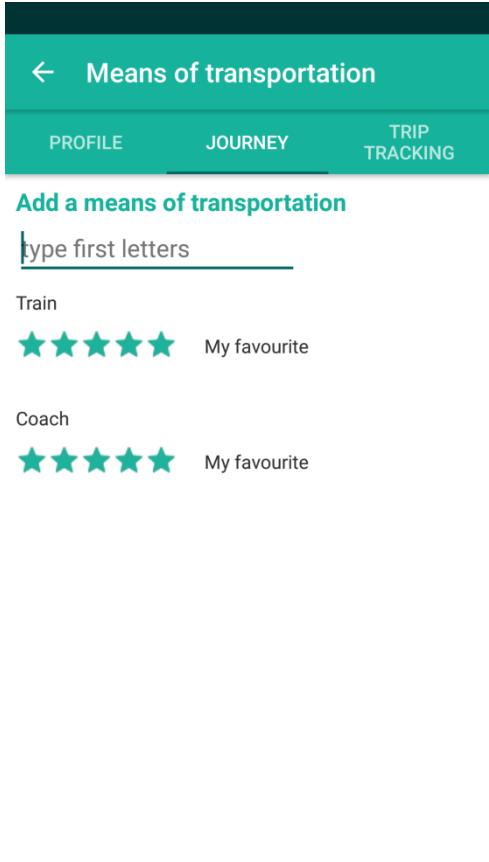
Fig 1 Register screen	Fig 2 Preferences: home screen	Fig 3 Preferences: Means of transportation
 <p>The register screen features a header image of train tracks. Below it are input fields for 'Name' (Jane), 'Email' (IT2Rail), 'Phone' (Jane@it2rail.fr), and two password fields (each with six dots). A green 'CREATE AN ACCOUNT' button is positioned below the passwords. At the bottom, there is a link 'You already have an account ?' and a white 'LOG IN' button.</p>	 <p>The 'Preferences' screen has a teal header with a back arrow and the title 'Preferences'. Below the header are three tabs: 'PROFILE', 'JOURNEY', and 'TRIP TRACKING'. The main content area is titled 'User cards' and includes sections for 'Payment Cards', 'Loyalty Cards', 'Special Services for health reasons', and 'PRM'.</p>	 <p>The 'Means of transportation' screen has a teal header with a back arrow and the title 'Means of transportation'. Below the header are three tabs: 'PROFILE', 'JOURNEY', and 'TRIP TRACKING'. The main content area is titled 'Add a means of transportation' and includes a search bar 'type first letters'. Below the search bar are two sections: 'Train' and 'Coach', each with five stars and the text 'My favourite'.</p>

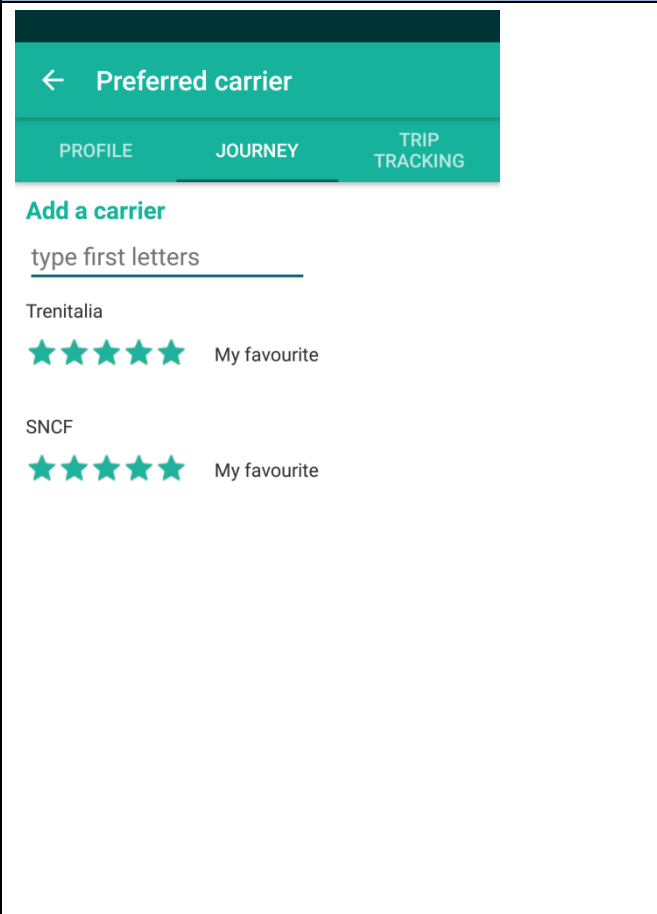
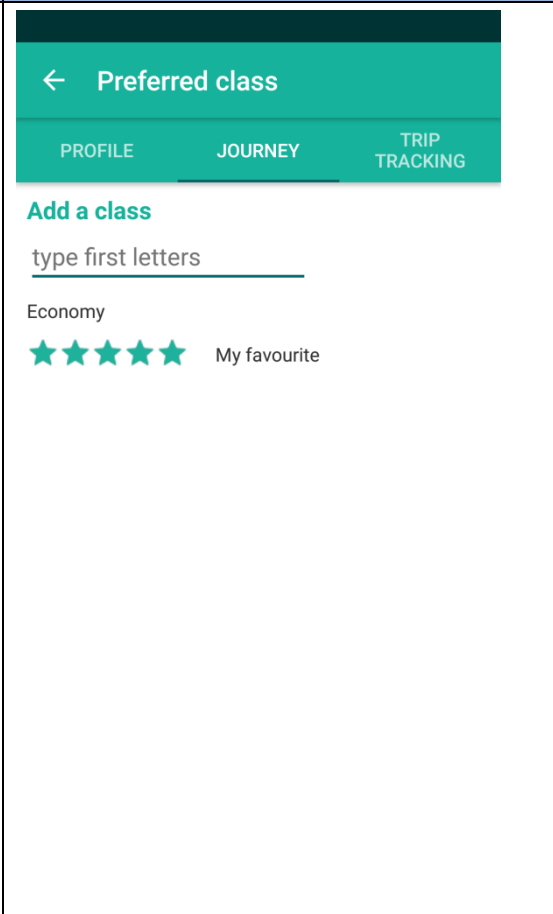
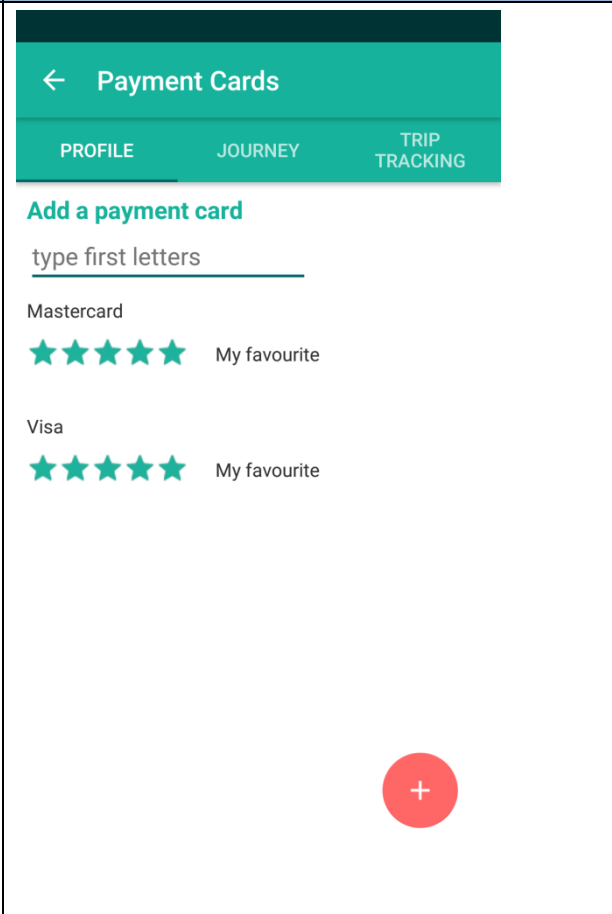
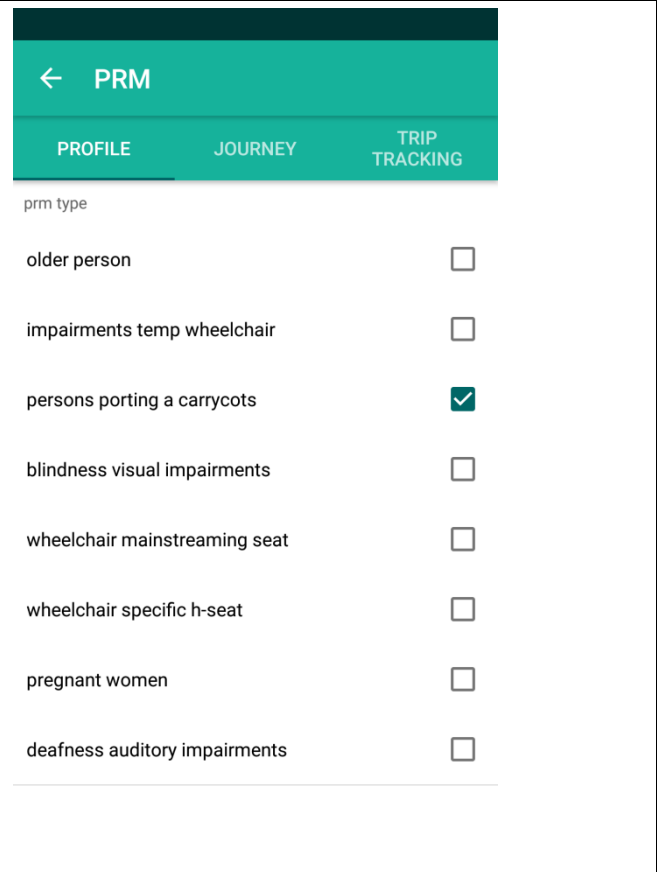
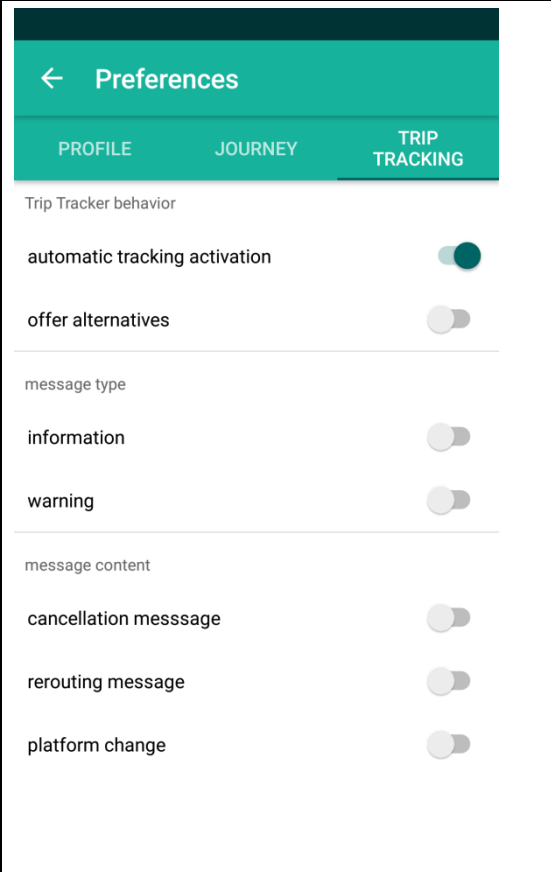
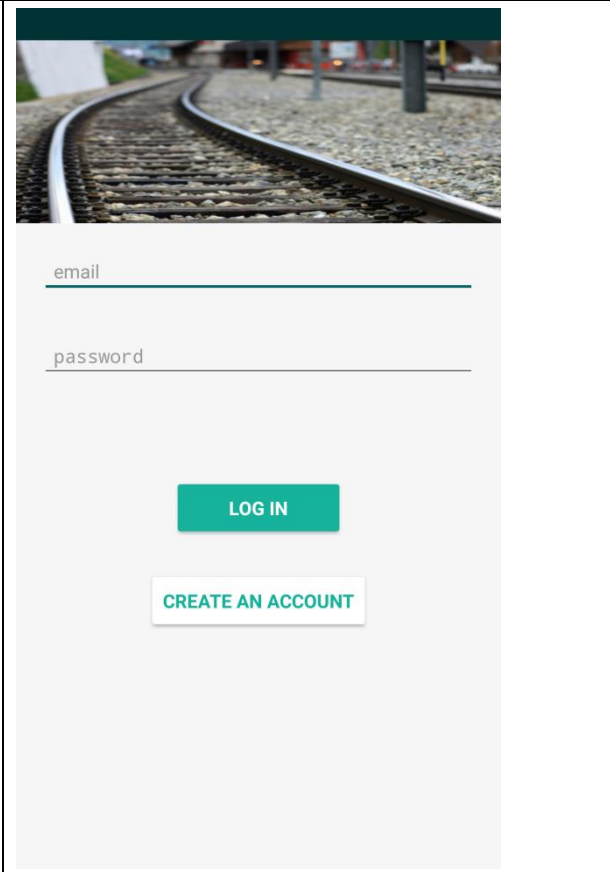
Fig 4 Preferences: carrier	Fig 5 Preferences: class	Fig 6 Preferences: Payment card
 <p>The screenshot shows the 'Preferred carrier' screen. At the top is a teal header with a back arrow and the title 'Preferred carrier'. Below the header is a tab bar with three options: 'PROFILE', 'JOURNEY', and 'TRIP TRACKING'. The 'JOURNEY' tab is selected. Under the header, there is a section 'Add a carrier' with a text input field labeled 'type first letters'. Below this, two carriers are listed: 'Trenitalia' and 'SNCF'. Each carrier has five teal stars and the text 'My favourite' to its right.</p>	 <p>The screenshot shows the 'Preferred class' screen. It has a similar layout to the 'Preferred carrier' screen. The header is 'Preferred class' and the 'JOURNEY' tab is selected. Under the header, there is a section 'Add a class' with a text input field labeled 'type first letters'. Below this, one class is listed: 'Economy'. It has five teal stars and the text 'My favourite' to its right.</p>	 <p>The screenshot shows the 'Payment Cards' screen. It has a similar layout. The header is 'Payment Cards' and the 'JOURNEY' tab is selected. Under the header, there is a section 'Add a payment card' with a text input field labeled 'type first letters'. Below this, two payment cards are listed: 'Mastercard' and 'Visa'. Each card has five teal stars and the text 'My favourite' to its right. At the bottom right of the screen, there is a red circular button with a white plus sign.</p>

Fig 7 Preferences: PRM type	Fig 8 Preferences: Automatic Trip Tracking	Fig 9 Close the application
 <p>The screenshot shows the 'PRM' (Persons with Reduced Mobility) preferences screen. The top bar is teal with a back arrow and the title 'PRM'. Below the bar are three tabs: 'PROFILE', 'JOURNEY', and 'TRIP TRACKING'. The 'TRIP TRACKING' tab is selected. The screen lists various PRM types with checkboxes: 'older person' (unchecked), 'impairments temp wheelchair' (unchecked), 'persons porting a carrycots' (checked), 'blindness visual impairments' (unchecked), 'wheelchair mainstreaming seat' (unchecked), 'wheelchair specific h-seat' (unchecked), 'pregnant women' (unchecked), and 'deafness auditory impairments' (unchecked).</p>	 <p>The screenshot shows the 'Preferences' screen for 'Automatic Trip Tracking'. The top bar is teal with a back arrow and the title 'Preferences'. Below the bar are three tabs: 'PROFILE', 'JOURNEY', and 'TRIP TRACKING'. The 'TRIP TRACKING' tab is selected. The screen lists various preferences with toggle switches: 'Trip Tracker behavior' (checked), 'automatic tracking activation' (checked), 'offer alternatives' (unchecked), 'message type' (unchecked), 'information' (unchecked), 'warning' (unchecked), 'message content' (unchecked), 'cancellation message' (unchecked), 'rerouting message' (unchecked), and 'platform change' (unchecked).</p>	 <p>The screenshot shows the login screen. At the top is a header image of train tracks. Below the image are two input fields: 'email' and 'password'. Below the input fields are two buttons: 'LOG IN' (teal) and 'CREATE AN ACCOUNT' (white with teal text).</p>

2.1.2 WP5 Login, preferences checking, log out

WP5-TC02 Login, preferences checking, log out	
Method Of Test	Demonstration, and inspection
Type of test	Manual
Objectives	Check that a user can use an account after its creation
Description	The tester will empty the cache, then login, and then set some preferences. Then he will empty the cache again, login again, and check the preferences he set are still here. Then logout, with no access to personal information anymore.
Status	Success
% passed	100%

Standard configuration	
Regression	None
Test Case Tester	Gabriel Virette

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - Application installed on mobile device - WP5TestCase 1-1 passed - User is able to empty application cache				

1	Empty Application Cache: Tester empties the application cache in Android parameters Tester launches the application	The application launches on the device on the login page	Compliant	Success	None
2	Login: tester enters the credentials (login and password) that he created in WP5TestCase1-1 Then user touches the Log in button.	Login message confirmation (Demonstration) Menu displays the login on top	Compliant	Success	None
3	Preferences checking: Tester goes to the preference screen, and checks that the Preferences are the ones he entered in WP5TestCase1-1	Preferences are the ones entered in WP5testCase1-1	Compliant	Success	None
4	Logout using the corresponding menu entry	Back to the login page	Compliant	Success	None
5	Repeat the 4 steps above on another mobile device	See the same results as above	Compliant	Success	None

2.1.3 WP5 Search an offer, book and pay it (from home screen)

WP5-TC03 Search an offer (from home screen)	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the user can search for an offer directly from the home trip of the app
Description	The user will search for an offer, and then book and pay it
Status	Success
% passed	100%

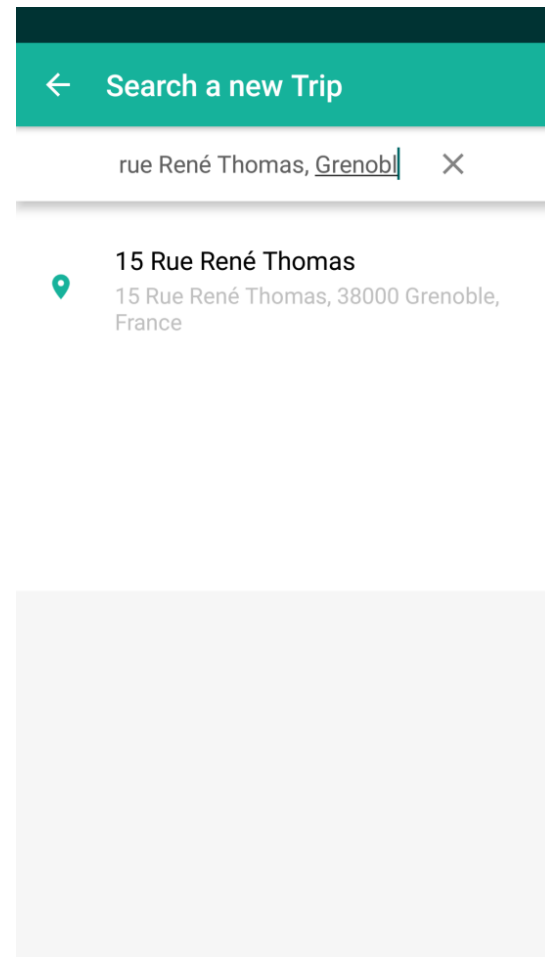
Standard configuration	
Regression	None
Test Case Tester	Nora Winner

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - User logged in, after WP5 Test Case 1-2				

1	Search an offer from the homepage Tester enters in the origin field: "15 Rue René Thomas, 38000 Grenoble"	Tester is getting autocompletion proposals based on what he entered	Compliant	Success	None
2	Choose origin 15 Rue René Thomas, 38000 Grenoble in the proposals list	Tester is sent to the search page with Origin field filled with value "15 Rue René Thomas, 38000 Grenoble"	Compliant	Success	None
3	Enter "Lyon Part Dieu" in the Destination field, and choose destination Lyon Part Dieu Choose a date 2 weeks from now; choose a time early in the day. Press the Search button	Show offers corresponding to the search	Compliant	Success	None
4	Sort offers by Departure time	Results are sorted by departure time (based on the date/time - the most recent first)	Compliant	Success	GUI bugs may occur for number of connexions, O/D names, date and time.
5	Press an offer to see offer details	Travel details are displayed, including several travel episodes and the details of these travel episodes : - Departure and arrival - Departure and arrival date/time	Compliant	Success	GUI bugs may occur for number of connexions, O/D names, date and time.

		<ul style="list-style-type: none"> - Price - Provider 			
6	Book the most expensive offer Press the “Book this trip button in the offer details	Pay screen opens	Compliant	Success	GUI bugs may occur for number of connexions, O/D names, date and time.
7	Pay the offer Accept Terms and conditions and press the “Pay this trip” button	User get a payment confirmation screen	Compliant	Success	

Fig 11 Search an offer: autocompletion

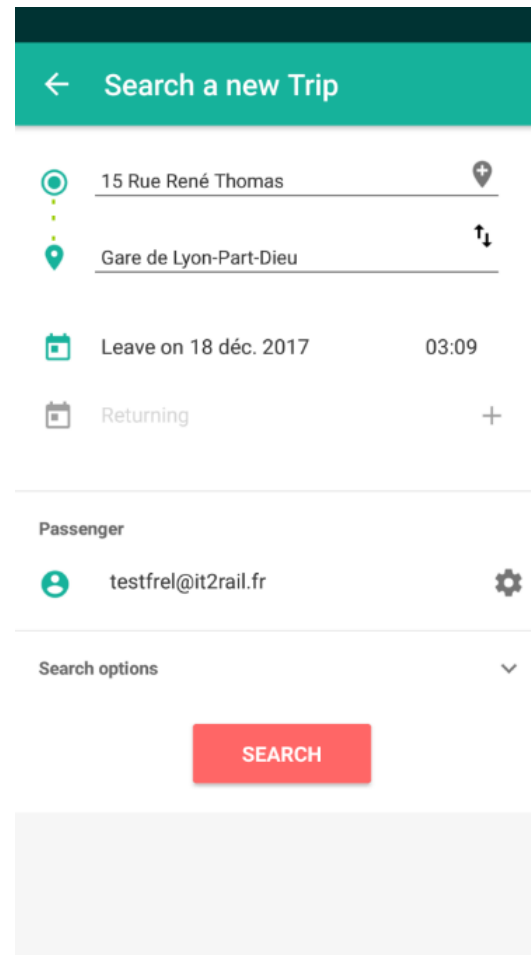


← Search a new Trip

rue René Thomas, Grenobl ✕

15 Rue René Thomas
15 Rue René Thomas, 38000 Grenoble, France

Fig 12 Search an offer: itinerary screen



← Search a new Trip

15 Rue René Thomas

Gare de Lyon-Part-Dieu

Leave on 18 déc. 2017 03:09

Returning +

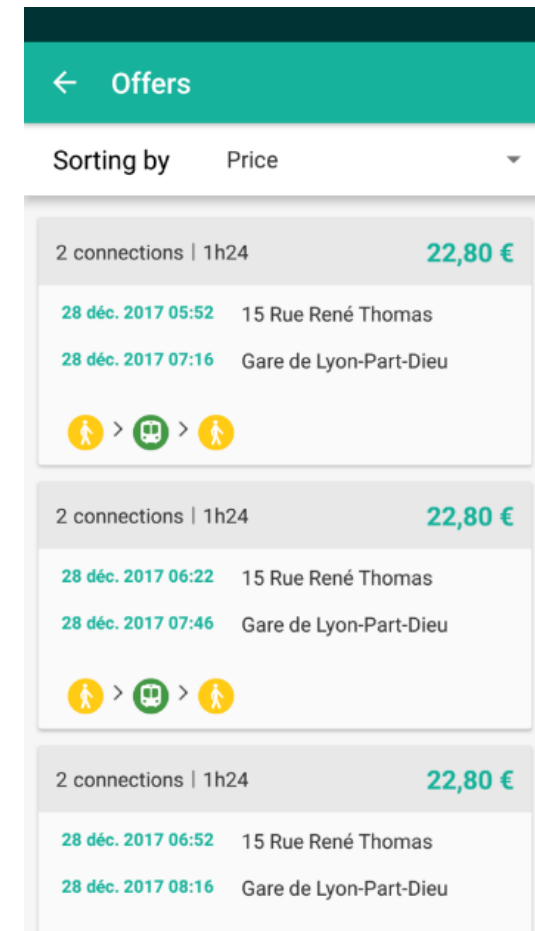
Passenger

testfrel@it2rail.fr

Search options

SEARCH

Fig 13 Search an offer: offers are displayed



← Offers

Sorting by Price

2 connections | 1h24 22,80 €

28 déc. 2017 05:52 15 Rue René Thomas

28 déc. 2017 07:16 Gare de Lyon-Part-Dieu

2 connections | 1h24 22,80 €

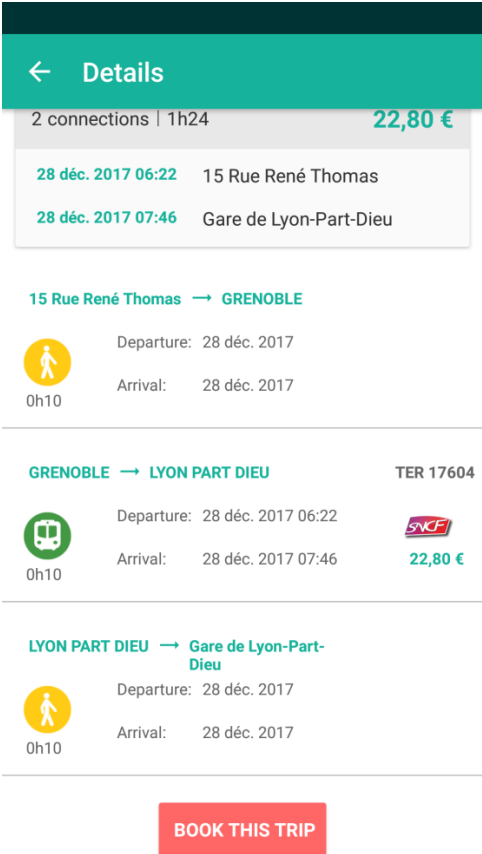
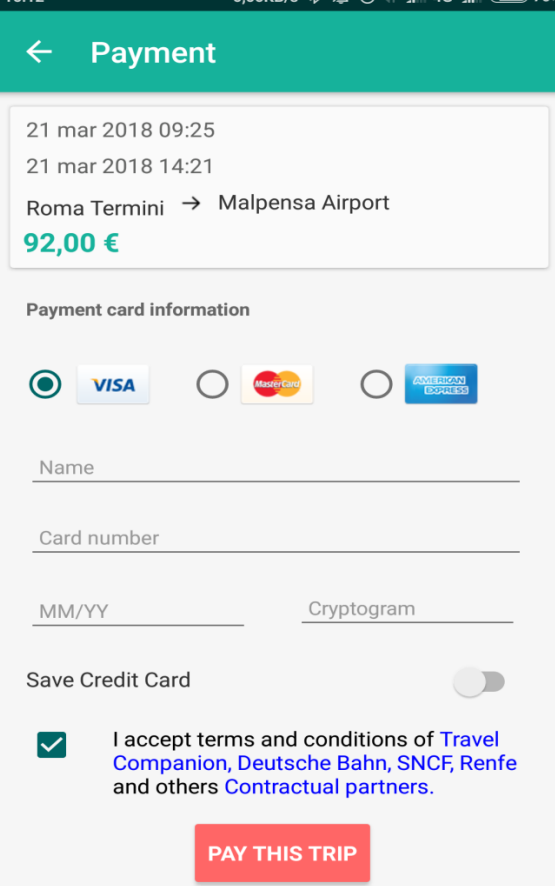
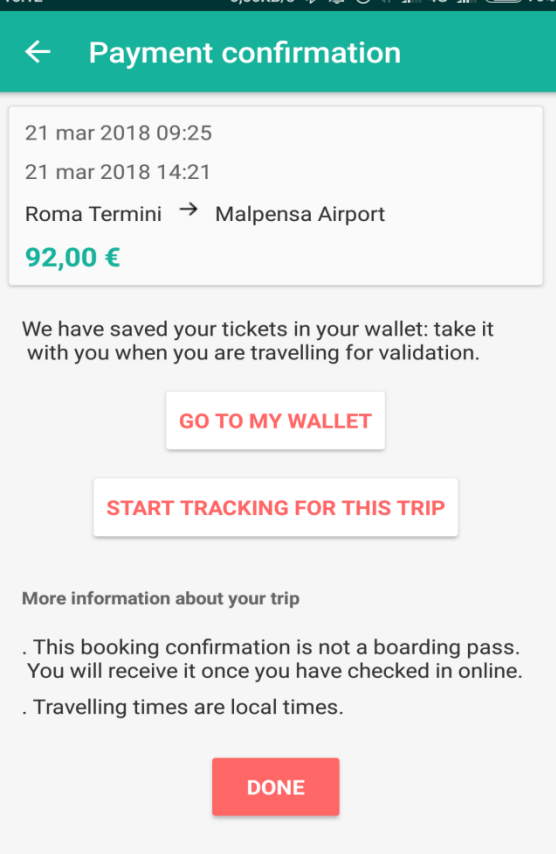
28 déc. 2017 06:22 15 Rue René Thomas

28 déc. 2017 07:46 Gare de Lyon-Part-Dieu

2 connections | 1h24 22,80 €

28 déc. 2017 06:52 15 Rue René Thomas

28 déc. 2017 08:16 Gare de Lyon-Part-Dieu

Fig 14 Search an offer: offer details	Fig 14 bis Pay screen opens	Fig 14 ters Payment confirmation screen
		

2.1.4 WP5 Start Tracking & Send Message

WP5-TC04 Start Tracking & Send Message	
Method Of Test	Demonstration
Type of test	Manual
Objectives	Test the availability of the trip tracker Start Tracking interface
Description	User will ask to start tracking his trip, by pressing the dedicated button at the end of a successful payment for a trip. The success is confirmed in a popup.
Status	Success
% passed	100%

Standard configuration	
Regression	None
Test Case Tester	Nora Winninger

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - Application installed on mobile device, linked with Android studio with logs				

	activated (to allow the retrieval of the userIDToken) - API Simulator (Postman) available - WP5 Test Case 1-3 done on the device - Tester not logged in				
1	Ask to Start Tracking At the end of WP5TestCase1-3, press the Start Tracking button presented at the bottom of a travel episode	Popup that shows a success “tracking activated” (which means WP4 received BookedOfferId, UserId, and UserId Token)	Compliant	Success	None
2	Send message 1: The simulator (Postman) is used to simulate WP4 API designed to send a message to the user (see WP5 Trip tracking test methods section of this document, and Start Tracking WP5 Access Wallet Manager API documentation for details)	A message is received on the PA with defined title and content for Information: - The user clicks on the notification, he logs into the app, he can see a green notification with an “information” icon, a green title and a descriptive text. He can dismiss the notification and go back to the home screen.	Compliant	Success	GUI bugs may occur
3	Send message 2: The simulator (Postman) is used to simulate WP4 API designed to send a message to the user (see WP5 Access Wallet Manager API documentation)	A message is received on the PA with defined title and content for warnings: - The user clicks on the notification, he logs into the app, he can see an orange notification with an “warning” icon, an orange “Be careful” title and a descriptive text. He can dismiss the notification and go back to the home screen.	Compliant	Success	GUI bugs may occur

4	Send message 3: The simulator (Postman) is used to simulate WP4 API designed to send a message to the user (see WP5 Access Wallet Manager API documentation)	<p>A message is received on the PA with defined title and content for alerts:</p> <ul style="list-style-type: none"> - The user clicks on the notification, he logs into the app, he can see a red notification with an “alert” icon, a red “disruption on your trip” title and a descriptive text. He can dismiss the notification and go back to the home screen, or choose to “find an alternative trip”. 	Compliant	Success	GUI bugs may occur
5	The user chooses to search for an alternative itinerary.	New shopping steps are displayed with correct origin/destination, date, and time (according to the itinerary tracked at the “search a new trip level”)	Compliant	Success	The test was done with WP4

6	Send message 4: The simulator (Postman) is used to simulate WP4 API designed to send a message to the user (see WP5 Access Wallet Manager API documentation)	<p>The user can see the information of the travel episode about to start (10 minutes later).</p> <p>A green screens is displayed with an “information” icon.</p> <p>The user can dismiss the notification or click to see the details of the travel episode and access the 3d level of Wallet to see his e-ticket for validation.</p>	Compliant	Success	GUI bugs may occur
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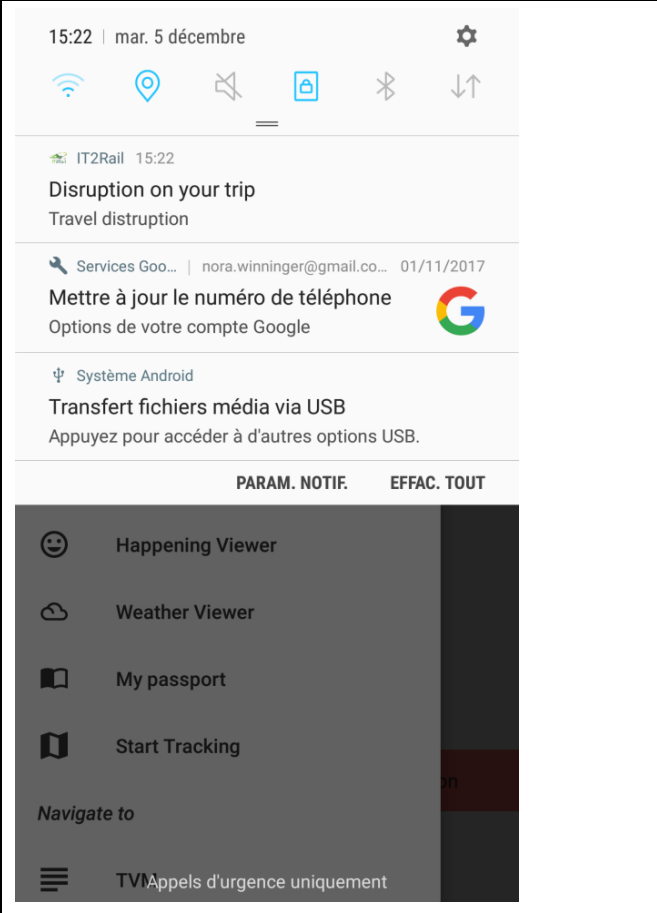
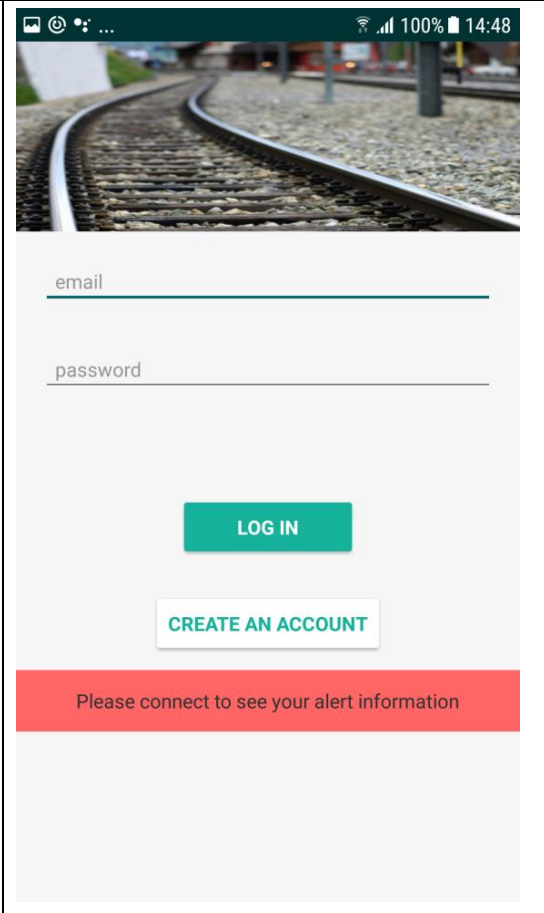
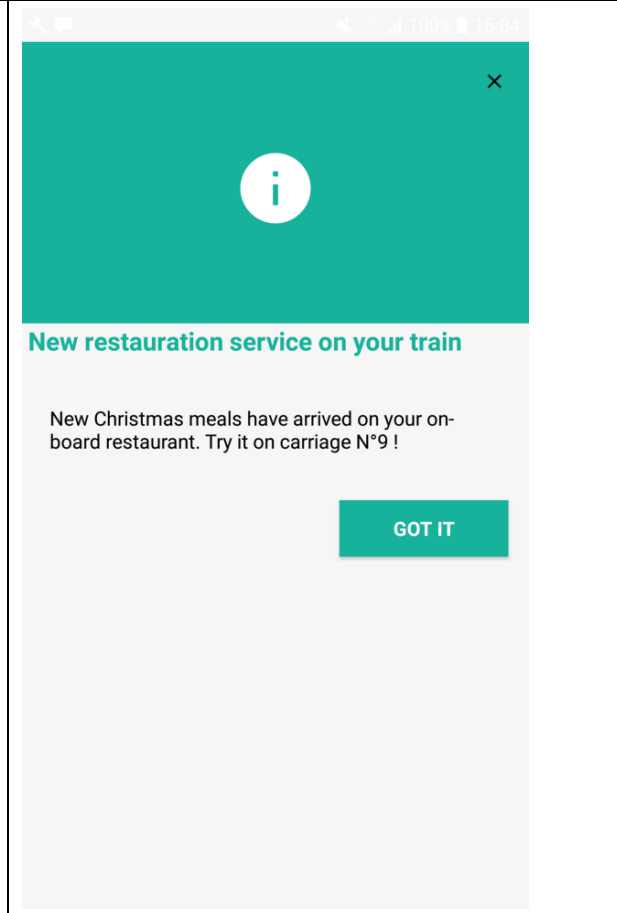
Fig 15 Notification of a disruption	Fig 16 Login to see the information	Fig 17 Information notification
		

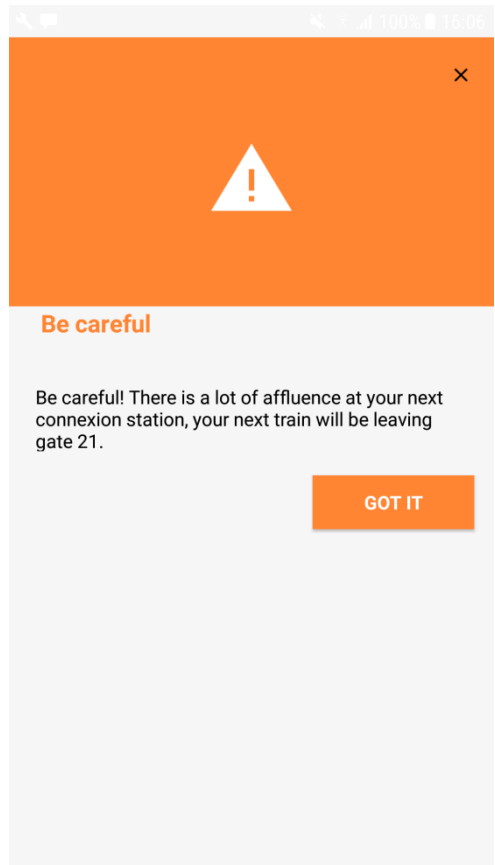
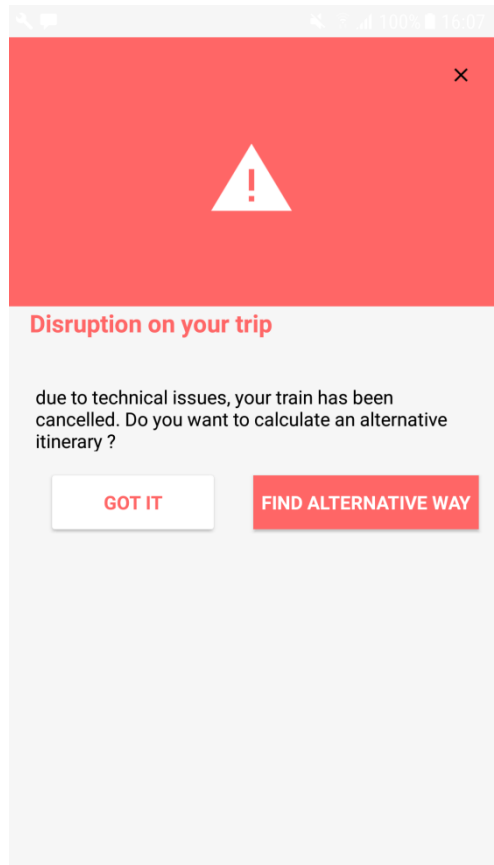
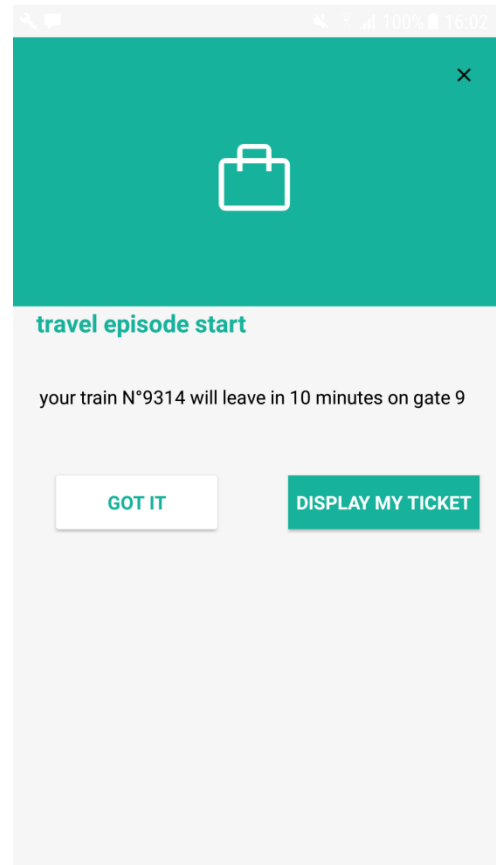
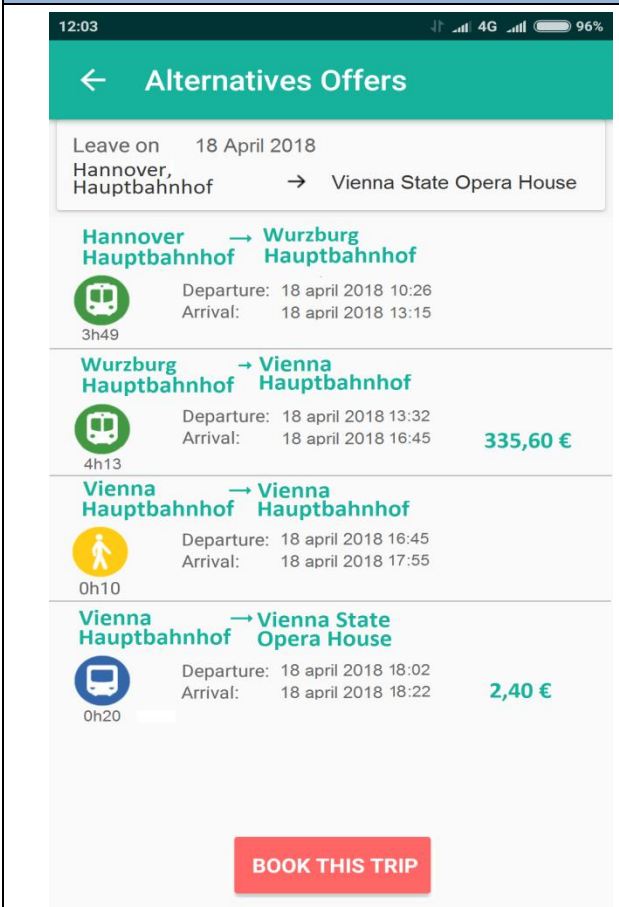
Fig 18 Warning notification	Fig 19 Alert notification	Fig 20 Travel episode start
		

Fig 18 bis Alternative itinerary



The screenshot displays the 'Alternatives Offers' screen in the IT2Rail app. It shows a journey starting from Hannover Hauptbahnhof on 18 April 2018, ending at Vienna State Opera House. The journey is broken down into four segments:

Segment	From	To	Mode	Departure	Arrival	Duration	Price
1	Hannover Hauptbahnhof	Wurzburg Hauptbahnhof	Train	18 april 2018 10:26	18 april 2018 13:15	3h49	
2	Wurzburg Hauptbahnhof	Vienna Hauptbahnhof	Train	18 april 2018 13:32	18 april 2018 16:45	4h13	335,60 €
3	Vienna Hauptbahnhof	Vienna Hauptbahnhof	Walking	18 april 2018 16:45	18 april 2018 17:55	0h10	
4	Vienna Hauptbahnhof	Vienna State Opera House	Bus	18 april 2018 18:02	18 april 2018 18:22	0h20	2,40 €

A red button at the bottom of the screen reads 'BOOK THIS TRIP'.

2.1.5 WP5 Last Search

WP5-TC05 Last Search	
Method Of Test	Demonstration
Type of test	Manual
Objectives	Check that the homepage gives access to the search page, with location proposals based on search history
Description	The user will search for an offer from the homepage
Status	Success
% passed	100%

Normal client and server configuration	
Regression	None
Test Case Tester	Gabriel Virette

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - Application installed on mobile device - User logged in, after WP5 Test Case 1-2 - Test 1-3 successful				
1	Open the menu and select entry "Home"	The last search appears on the homepage (origin and destination) It remains in cache on the device and the user can see it even after a log out (on the same device).	Compliant	Success	None
2	Click on the last search	The search screen is displayed with origin and destination pre-filled with the last values It remains in cache on the device and the user can see it even after a log out (on the same device).	Compliant	Success	None
3	Click on the field "From"	All previously entered locations are proposed as alternative choices for this field. The last researches are also proposed to replace both origin and destination. It remains in cache on the device and the user can see it even after a log out (on the same device).	Compliant	Success	None


Fig 21 Last Search: last search displayed


Fig 22 Last search: last search auto re-use




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 IT2Rail


 From


 To


My last researches




15 Rue René Thomas, 15 Rue René Thomas, 38000 Grenoble, France → Gare de Lyon-Part-Dieu, 5 Place Charles Béraudier, 69003 Lyon, France


 Search a new Trip

 15 Rue René Thomas

 Gare de Lyon-Part-Dieu


 Leave on 04 déc. 2017


15:48

 Returning


+

Passenger

 testfrel@it2rail.fr



Search options



SEARCH

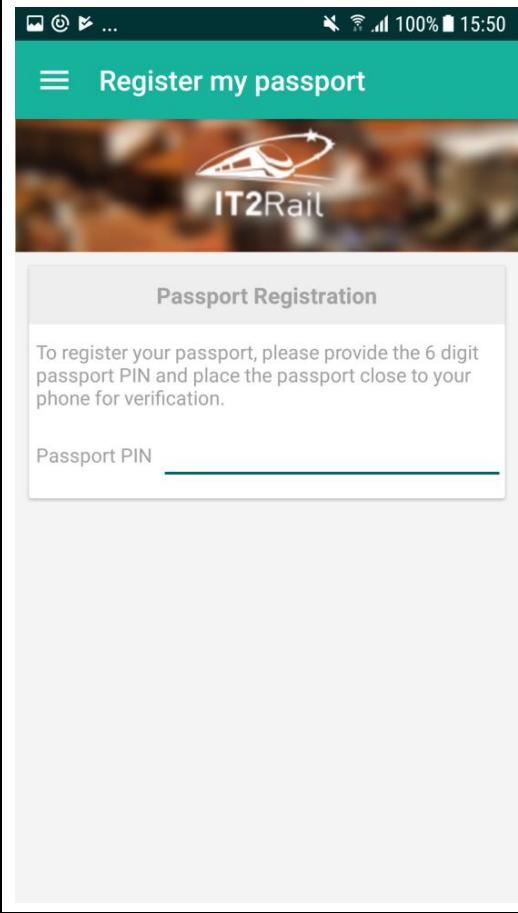
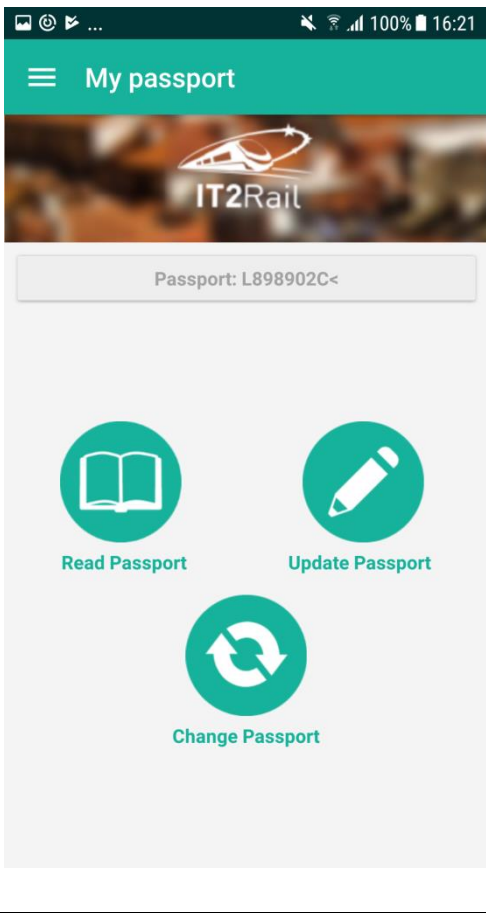
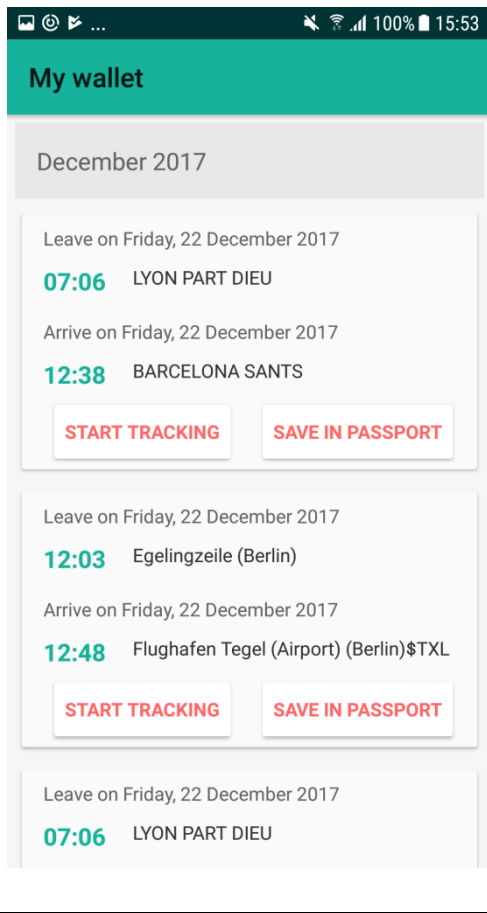
2.1.6 WP5 E-Passport : Register & Update Passport

WP5-TC06 E-Passport	
Method Of Test	Demonstration
Type of test	Manual
Objectives	Register a new passport and Update the e-passport
Description	Add a new passport by contacting it with the phone, and save booked offers previously shopped on the said passport in two ways: from the Update my passport module, and directly from “my wallet” screen.
Status	Success
% passed	100%

Normal client and server configuration	
Regression	None
Test Case Tester	Gabriel Virette

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - Application installed on mobile device - E-passport available (or corresponding to test card)				

	but not registered - WP5 Test Case 1-3 done on the device				
1	Go to the My Passport menu entry	Tester is sent to the Passport registration page	Compliant	Success	None
2	Enter the Passport PIN code and present the test passport	A loading screen appears and the user lands on the E-passport home screens. The My Passport main page displays 3 options: read/update/change Passport	Compliant	Success	None
3	Update passport from the Wallet: go to “My wallet” tab, choose a booked trip and present the test passport.	The success is confirmed by a toast notification. the offer is physically written on the E-Passport	Compliant	Success	None
4	Update passport from the “Update my Passport” menu.	The user is redirected to the Wallet, and save an offer from there, repeating the previous step	Compliant	Success	None
Fig 23 Passport Registration		Fig 24 E-passport home screen	Fig 25 Update passport from my Wallet		

		
<p>Fig 26 Test showing success</p>		



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<div><div>🔍</div><div>📶 100% 16:47</div><div>My wallet</div><div>December 2017</div><div><div>Leave on Friday, 22 December 2017</div><div>07:06 LYON PART DIEU</div><div>Arrive on Friday, 22 December 2017</div><div>12:38 BARCELONA SANTS</div><div>START TRACKING</div><div>SAVE IN PASSPORT</div></div><div><div>Leave on Friday, 22 December 2017</div><div>12:03 Egelingzeile (Berlin)</div><div>Arrive on Friday, 22 December 2017</div><div>12:48 Flughafen Tegel (Airport) (Berlin)\$TXL</div><div>You Offer has been successfully saved on the e-passport!</div></div><div><div>Leave on Friday, 22 December 2017</div><div>07:06 LYON PART DIEU</div></div></div>		
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2.1.7 WP5 E-Passport : read E-Passport

WP5-TC07 E-Passport	
Method Of Test	Demonstration
Type of test	Manual
Objectives	Read offers on an e-passport
Description	Contact a passport with a phone and see offers previously stored on the said passport and their details
Status	Success
% passed	100%

Normal client and server configuration	
Regression	None
Test Case Tester	Gabriel Virette

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - Application installed on mobile device - E-passport available (or corresponding to test card) but not registered				

	- WP5 Test Case 1-3 done on the device				
1	Go to the main Passport page and press the Read Passport button	The tester is asked to present his passport.	Compliant	Success	None
2	Present the test passport	The offers list available in the passport is displayed, exactly as they are displayed in the Wallet.	Compliant	Success	None
3	Click on the one offer	The trip details are displayed.	Compliant	Success	None

Fig 27 Present your passport	Fig 28 List of offers stored on the E-Passport	Fig 29 Details of offers
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Read my passport

Passport: L898902C<

Please present your passport
Place your passport close to your phone to read your registered trip.

CANCEL

Offers

Sorting by Price

3 connections | 4h56 92,00 €

03 déc. 2017 06:25 Termini Station Rooms
03 déc. 2017 11:21 Malpensa Airport

> > >

3 connections | 4h56 92,00 €

03 déc. 2017 06:25 Termini Station Rooms
03 déc. 2017 11:21 Malpensa Airport

> > >

3 connections | 6h56 92,00 €

03 déc. 2017 04:25 Termini Station Rooms
03 déc. 2017 11:21 Malpensa Airport

Details

3 connections | 4h56 92,00 €

03 déc. 2017 06:25 Termini Station Rooms
03 déc. 2017 11:21 Malpensa Airport

Termini Station Rooms → ROMA TERMINI

Departure: 03 déc. 2017
0h10 Arrival: 03 déc. 2017

ROMA TERMINI → MILANO CENTRALE

Departure: 03 déc. 2017 06:25
0h10 Arrival: 03 déc. 2017 09:24

FRECCIA-ROSSA ...
 79,00 €

MILANO CENTRALE → MALPENSA AEROPORTO

Departure: 03 déc. 2017 10:24
0h10 Arrival: 03 déc. 2017 11:21

24968
 13,00 €

MALPENSA AEROPORTO → Malpensa Airport

ITR-WP5-D-SNC-114-03

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2.1.8 WP5 Happening Viewer

WP5-TC08 Happening Viewer	
Method Of Test	Demonstration
Type of test	Manual
Objectives	See events in a specific city
Description	Choose a city and see, on a map and list, events happening for a specific date and time.
Status	Success
% passed	100%

Normal client and server configuration	
Regression	None
Test Case Tester	Gabriel Virette

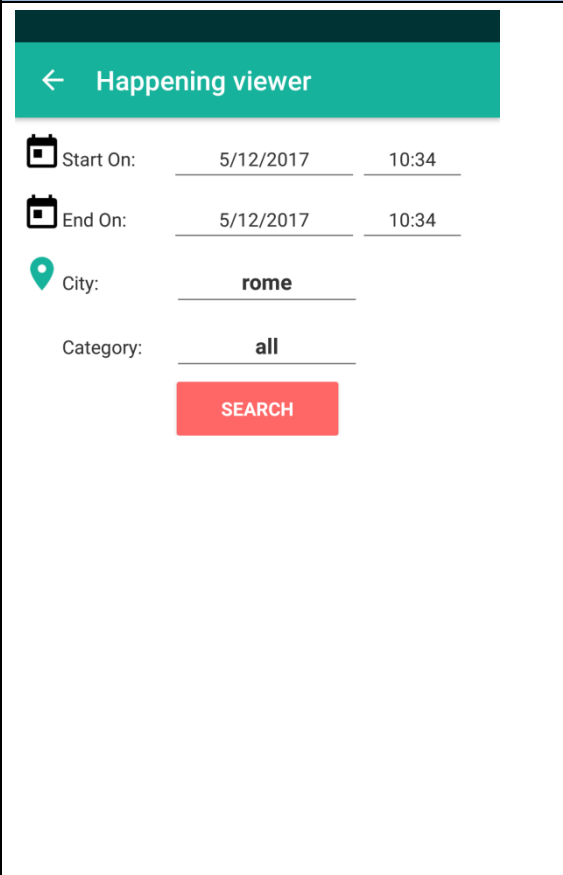
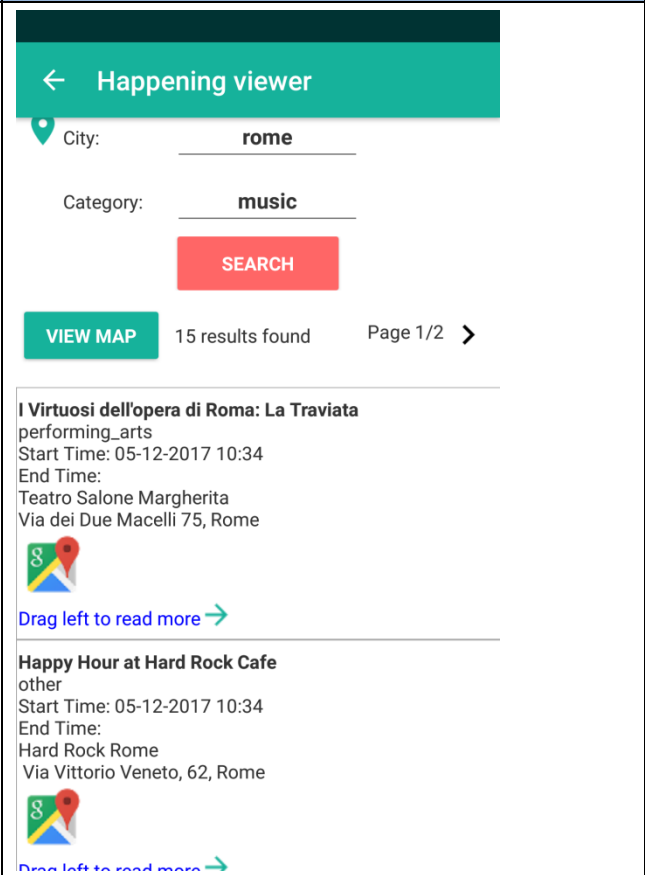
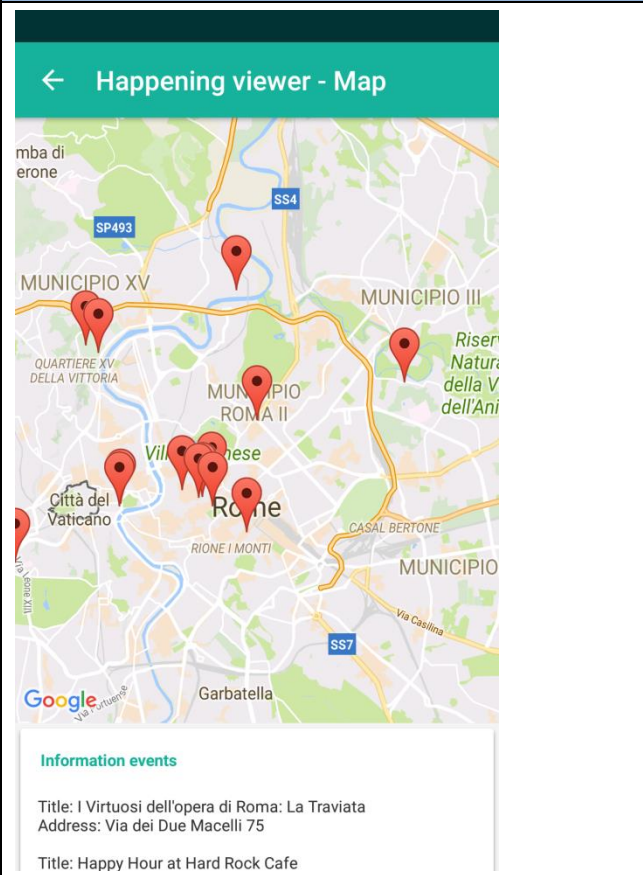
Id	Steps description	Expected result	Observed result	State	Associated defect
	Precondition: - Application installed on mobile device				



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1	Login and press the Happening viewer menu item	The tester is sent to the main Happening viewer page	Compliant	Success	None
2	Choose the current date for start date, and one month later for the end date, city "Rome", filter a category for "music"	Some events in the chosen timeslot are displayed	Compliant	Success	None
3	Click on Map icon on any event in the list	The map is displayed with different happenings	Compliant	Success	None

Fig 31 Happenings searching page	Fig 32 Happenings list	Fig 33 Happening map
		

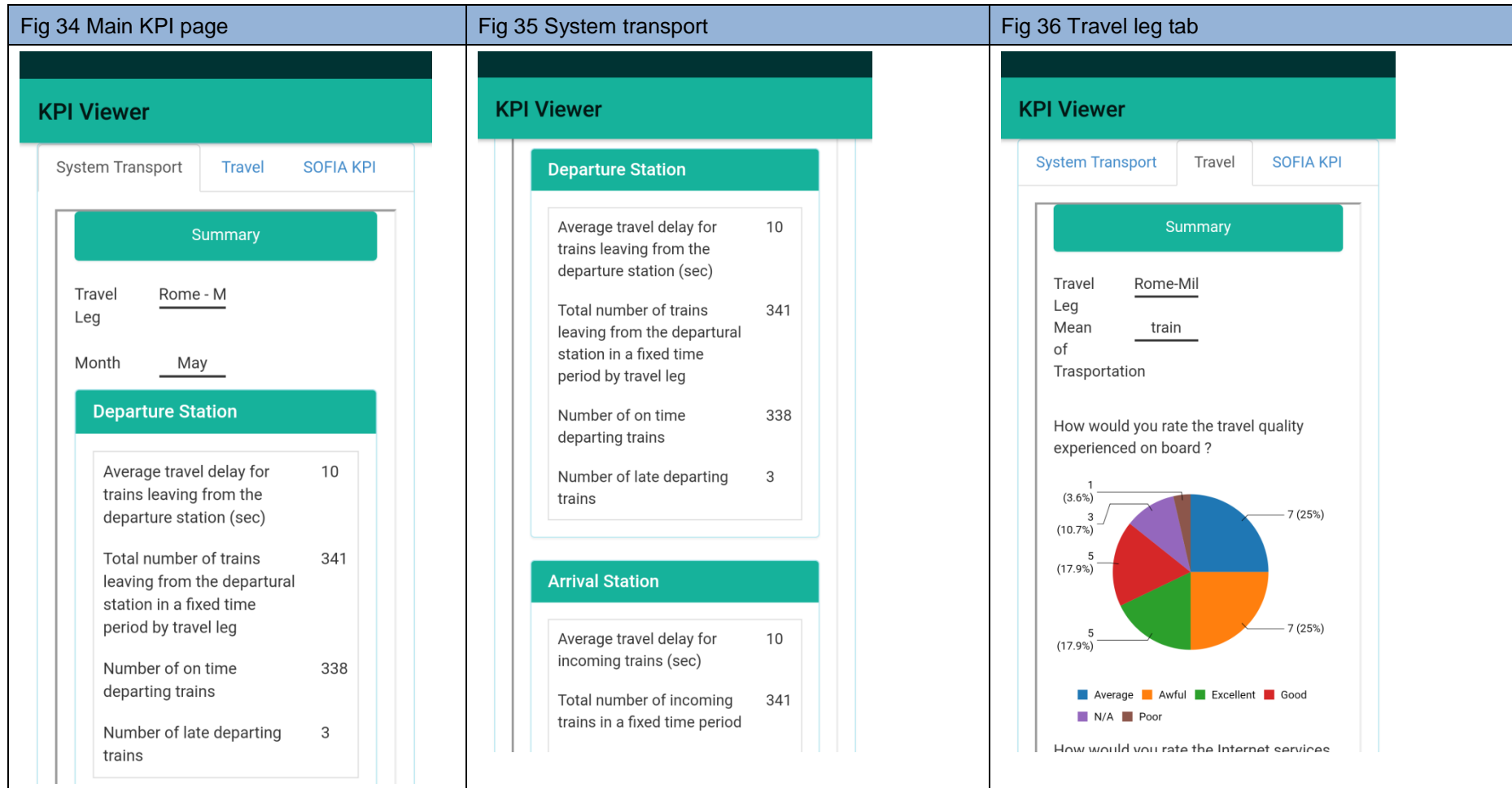
2.1.9 WP5 KPI Viewer

WP5-TC09 KPI Viewer	
Method Of Test	Demonstration
Type of test	Manual
Objectives	See KPI information related to specific travel legs, months, and mean of transportation
Description	Click on the KPI tab and view charts showing transport statistics
Status	Pending
% passed	90%

Standard configuration	
Regression	Login screen
Test Case Tester	Gabriel Virette

Id	Steps description	Expected result	Observed result	State	Associated defect
	Precondition: - Application installed on mobile device				

1	Login and press the KPI viewer menu item	The tester is sent to the main KPI viewer page	Compliant	Success	None
2	Select the “Roma-Milano” travel leg for the month of “May”	Statistics are shown for: <ul style="list-style-type: none"> • Departure stations • Arrival Station • Travel leg • Charts of delays 	Compliant	Success	None
3	Click on the “travel” tab Choose the “Roma-Milano” leg Choose train as a mean of transportation	A summary of customer satisfaction is shown with different pie charts	Compliant	Success	None
4	Click on the “Sofia KPI” tab	The Sofia KPIs are displayed with statistics for: <ul style="list-style-type: none"> • Preferences carrier seat • Average Stops • MaxMinPrices • TotalNumberAlternatives • TransportationMode 	The page is displayed but preferences carrier seat, average stops, etc... are empty	Failure but it will be successfully tested at WP7	Windows are blank



2.1.10 WP5 Navigation

WP5-TC10 Navigation	
Method Of Test	Demonstration
Type of test	Manual
Objectives	Navigate in a station to a specific point of interest (restaurant, gate, etc...)
Description	The user can navigate on a map of a chosen station and his help on his path thanks to Augmented Reality.
Status	Success
% passed	100%

Normal client and server configuration	
Regression	Issue on AR guiding
Test Case Tester	Gabriel Virette

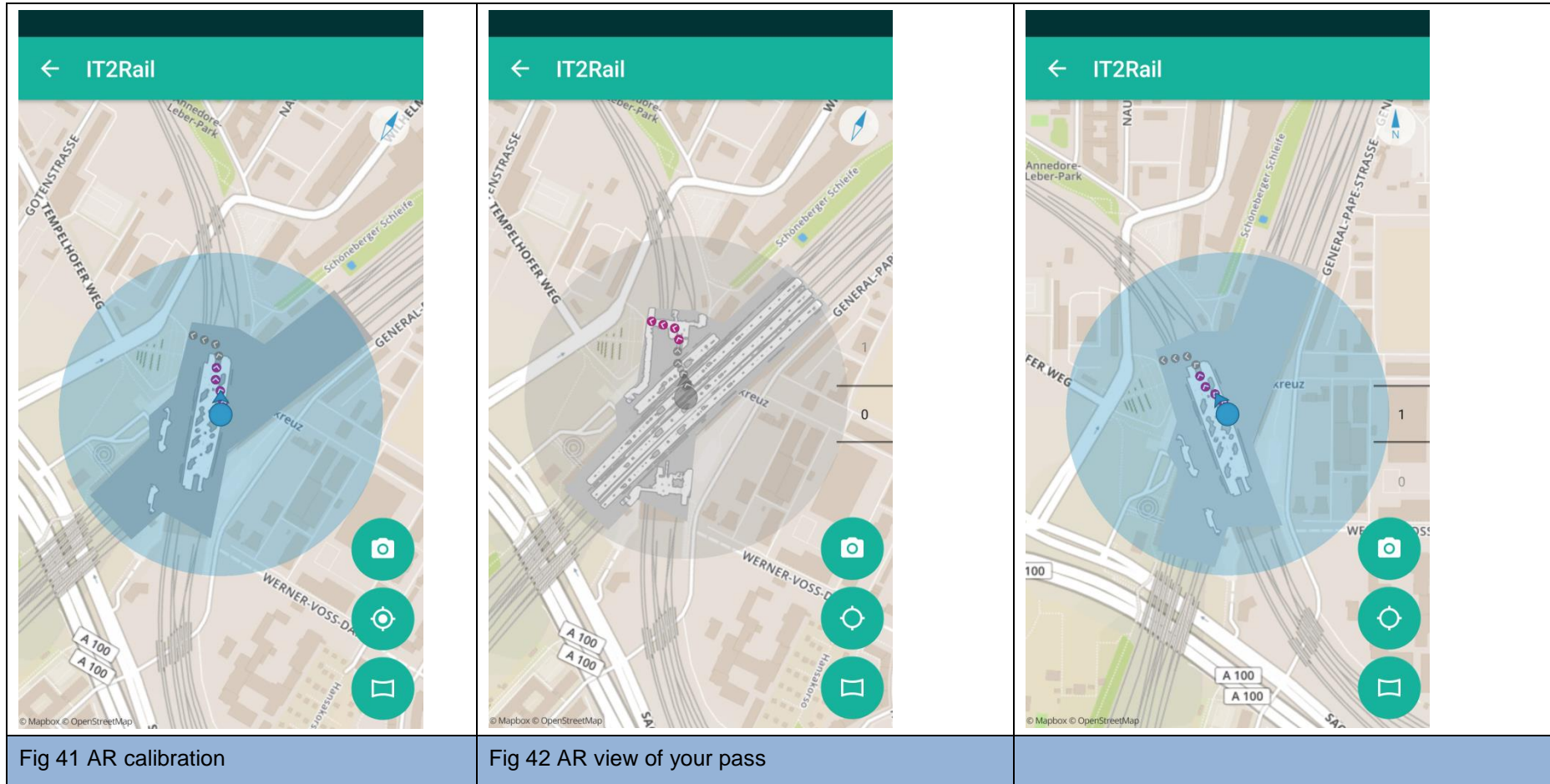
Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - Application installed on mobile device - Positioning is not activated on the phone - A positioning simulator App is installed on the mobile and a mock position for Südkreuz is chosen.				
1	In the list below “navigate to” choose a location between: <ul style="list-style-type: none"> - TVM - West Entrance - West Hall - Snack - DB Information - Magazines - Bus Südkreuz - Track 11 	A map of the relevant station is displayed. The position of the user is simulated (I can see a blue dot on the map). A path from the user’s simulated position to his point of interest is represented on the map.	Compliant	Success	The user’s simulated positioning may be imprecise
2	Rotate the smartphone from left to right	The map rotates accordingly	Compliant	Success	None
3	Scroll from “0” to “1” to display the different floors of the building on the map.	The map of the corresponding floor in the station is displayed	Compliant	Success	The 0/1 floor navigation button may not be visible sometimes.

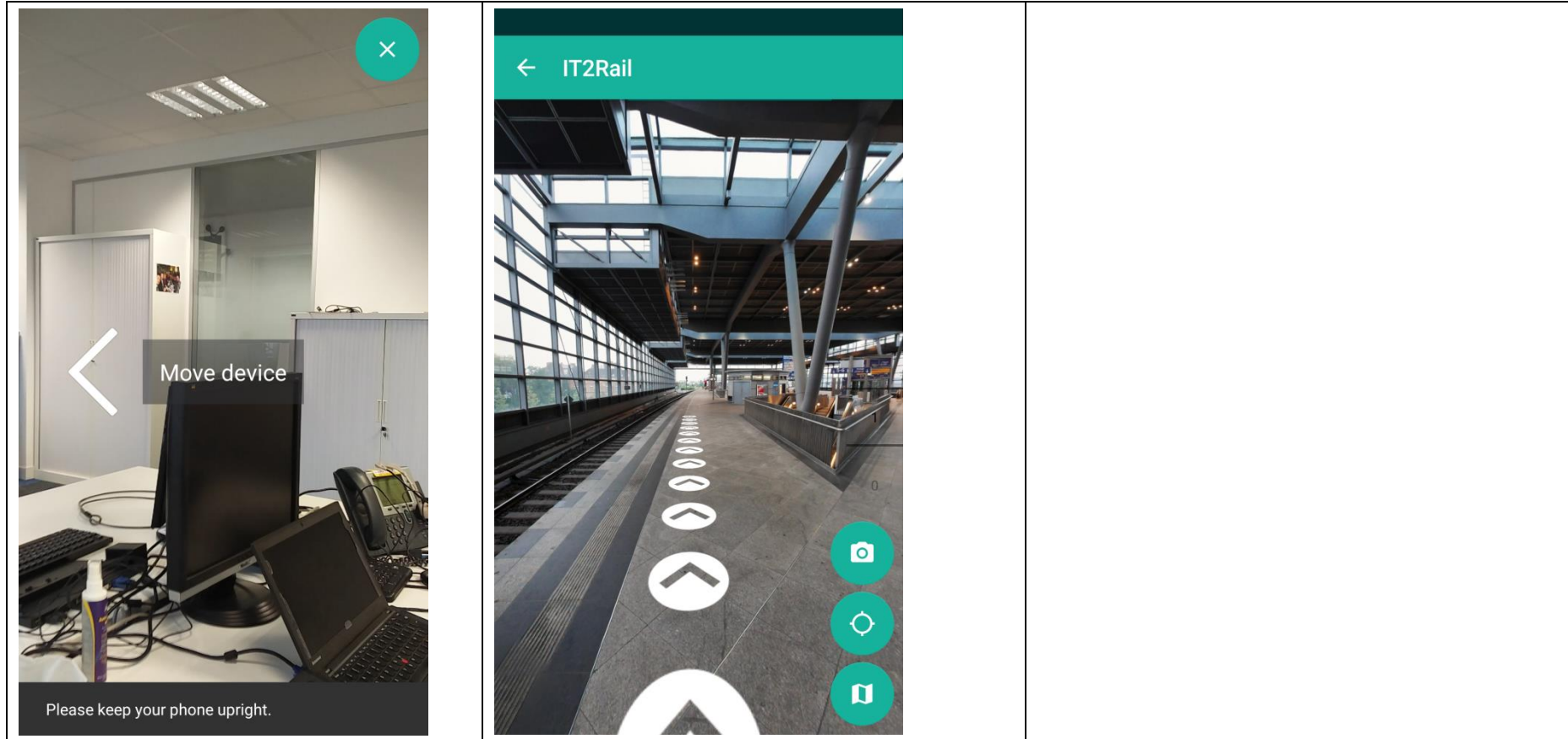
4	Push on the positioning button	The view is centered around the user's simulated position on the map	Compliant	Success	The user's simulated positioning may be imprecise
5	Push on the "compass" icon	The map is aligned on the north	Compliant	Success	None
6	Push the "camera" icon Follow instructions on the screen	The camera is enabled and instructions appear on the screen. The Augmented Reality system is calibrated.	Compliant	Success	None
7	Push on the "panorama" icon	An Augmented Reality view is displayed with the path the user is supposed to take. When clicking on the screen, you can move around freely to follow the path to your destination. When clicking on the map icon at the bottom right hand corner, you return to the map view.	It is The augmented reality path is not always displayed correctly	Success	The path is difficult to see on screen

Fig 38 Map displayed with simulated position

Fig 39 Scroll between 1st and 2nd floors

Fig 40 Compass to the north





2.1.11 WP5 Multi Device

WP5-TC11 Multi Device	
Method Of Test	Simulation and Demonstration
Type of test	Manual
Objectives	Check that a user can find his personal environment on a different device
Description	Login on a different device, check the Preferences, and receive a message coming from the WP4 Trip Tracking
Status	Success
% passed	100%

Normal client and server configuration	
Regression	None
Test Case Tester	Gabriel Virette

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - WP5TestCase1-1 and WP5TestCase1-3 passed on another device - Application installed on the new mobile device, linked with Android studio with logs activated (to allow retrieval of the userIDToken) - Tester not logged in				
1	On the new device, login with the credentials from WP5TestCase1-1	The tester is logged in. The homepage contains no search history (it is stored locally only)	Compliant	Success	None
2	Check Preferences Go to the menu, choose the Preferences menu item, and check the value of the Preferences	The Preferences are in the same state as in WP5TestCase1-2	Compliant	Success	None
3	Send message : The simulator is used to simulate WP4 sending a message to the user (see Start Tracking tests in this document for details)	A notification is received on the user device with the defined title and content	Compliant	Success	None

4	Click on the notification : Tester clicks on the notification (and if his phone is locked, enters his PIN code)	Tester is sent to the Message details in the application, and can see the details that were in the simulated Trip Tracker message	Compliant	Success	None
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Fig 43 Status bar notification

Fig 44 Login to see notification



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<p>15:22 mar. 5 décembre</p> <p>IT2Rail 15:22</p> <p>Disruption on your trip Travel disruption</p> <p>Services Goo... nora.winninger@gmail.co... 01/11/2017</p> <p>Mettre à jour le numéro de téléphone Options de votre compte Google</p> <p>Système Android</p> <p>Transfert fichiers média via USB Appuyez pour accéder à d'autres options USB.</p> <p>PARAM. NOTIF. EFFAC. TOUT</p> <p>Happening Viewer</p> <p>Weather Viewer</p> <p>My passport</p> <p>Start Tracking</p> <p>Navigate to</p> <p>TVAppels d'urgence uniquement</p>	<p>14:48</p> <p>email</p> <p>password</p> <p>LOG IN</p> <p>CREATE AN ACCOUNT</p> <p>Please connect to see your alert information</p>
--	--

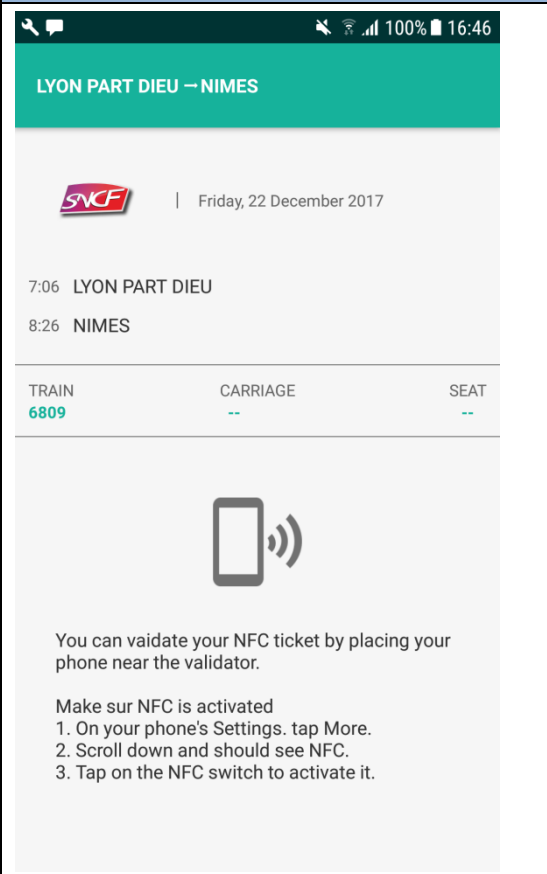
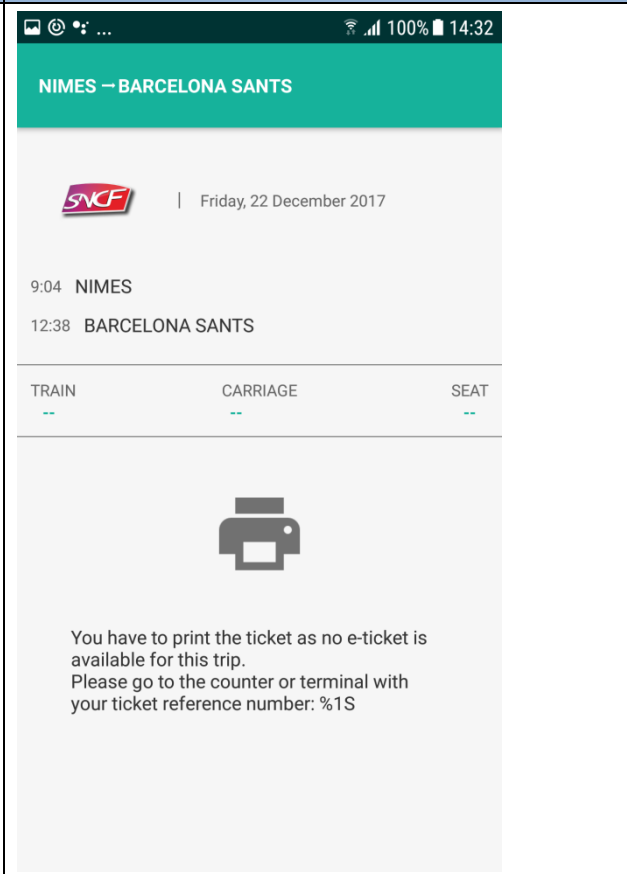
2.1.12 WP5 Access to the token before validation

WP5-TC12 Validation of the entitlement	
Method Of Test	Simulation and Demonstration
Type of test	Manual
Objectives	Check that a user can access and be ready to validate his ticket on 2 different entitlement NFC and QR code
Description	Login on a device, check the wallet, check a travel episode, check his ticket detail validation in the wallet
Status	Partially Succeed
% passed	66%

Normal client and server configuration	
Regression	None
Test Case Tester	Gabriel Virette

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - tester not logged in - NFC Module Installed on the phone				

	- Android phone equipped with a dedicated app reading QR Codes				
1	On the device, login with the credentials from WP5TestCase1-1 and go to Wallet in the menu	The content of the Wallet is displayed	Compliant See My Wallet for screen shots	Success	None
2	Access the 3rd level of the Wallet – For an NFC Offer	After clicking on a Booked Offer, the travel episodes are displayed. The user clicks on a travel episode and the 3d level of Wallet is displayed with a message stating the offer is ready to be validated on an NFC receiver	Compliant	Success	GUI bug may occur
3	Access the 3rd level of the Wallet – For a QR code Offer	After clicking on a Booked Offer, the travel episodes are displayed, the user clicks on a travel episode and the 3d level of Wallet is displayed with a message stating entitlement is ready to be validated – the QR code is displayed below the details of the travel episode	Failed	Impossible to test	The QR code tapping module wasn't implemented by Thales

Fig 45 NFC Validation	Fig 46 Print your Ticket	
 <p>The screenshot shows the 'LYON PART DIEU – NIMES' ticket. It includes the SNCF logo, the date 'Friday, 22 December 2017', and the departure time '7:06'. Below this, it lists '8:26 NIMES'. A table shows 'TRAIN 6809', 'CARRIAGE --', and 'SEAT --'. At the bottom, there is an icon of a smartphone with a signal wave and instructions on how to validate the ticket using NFC.</p>	 <p>The screenshot shows the 'NIMES – BARCELONA SANTS' ticket. It includes the SNCF logo, the date 'Friday, 22 December 2017', and the departure time '9:04'. Below this, it lists '12:38 BARCELONA SANTS'. A table shows 'TRAIN --', 'CARRIAGE --', and 'SEAT --'. At the bottom, there is an icon of a printer and instructions on how to print the ticket as no e-ticket is available.</p>	

2.1.13 WP5 NFC Validation

WP5-TC13 E-Passport Validation	
Method Of Test	Simulation and Demonstration
Type of test	Manual
Objectives	Check that a user can validate entitlements stored on his e-Passport
Description	The user contacts his NFC phone with NFC Validation equipment; his title is read and validated if valid.
Status	Success
% passed	100%

Normal client and server configuration	
Regression	None
Test Case Tester	Nora Winner

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - NFC chip - NFC code number have been sent successfully from the phone to TSP - A validation equipment is available				
1	The user takes his NFC phone and contacts it with validation equipment. The phone is out of battery	The validation equipment reads the E-tickets inside the NFC chips and tells if the entitlements are valid or invalid.	Compliant	Success	NFC mode didn't request that the issuing booked offers to be received in the Wallet

Fig 47 NFC Entitlement valid



Fig 47 bis NFC Entitlement not valid



2.1.14 WP5 Already existing account

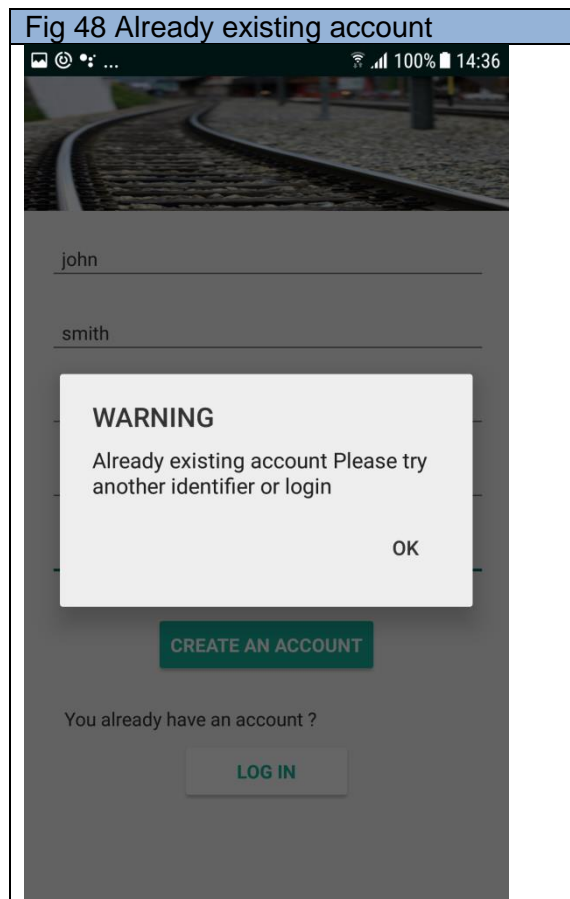
WP5-TC14 Already existing account	
Method Of Test	Demonstration
Type of test	Manual
Objectives	Check that the user cannot create an account with an already existing email
Description	The tester will try to create an account with test credentials, to trigger the error in the ID Manager Stub
Status	Success
% passed	100%

Normal client and server configuration	
Regression	None
Test Case Tester	Gabriel Virette

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - Application installed on the device				
1	Account Creation: Tester launches the application, then goes to the create account screen. In demo mode for the IDManager, tester creates an account with these credentials: login: janet2rail.fr Password: testpwd Password confirmation: tewtpwd If not in demo mode for the IDManager, tester creates an account with a login already created during test WP5TestCase1-1 Tester touches the “Create an account” button.	Error message: “email address already associated with an account”	Compliant	Success	None



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2.1.15 WP5 Wrong Credentials

WP5-TC15 Wrong Credentials	
Method Of Test	Demonstration
Type of test	Manual
Objectives	Check that a correct password confirmation is necessary to create an account
Description	Tester will try to create an account with a password confirmation that does not match the password
Status	Success
% passed	100%

Normal client and server configuration	
Regression	None
Test Case Tester	Gabriel Virette

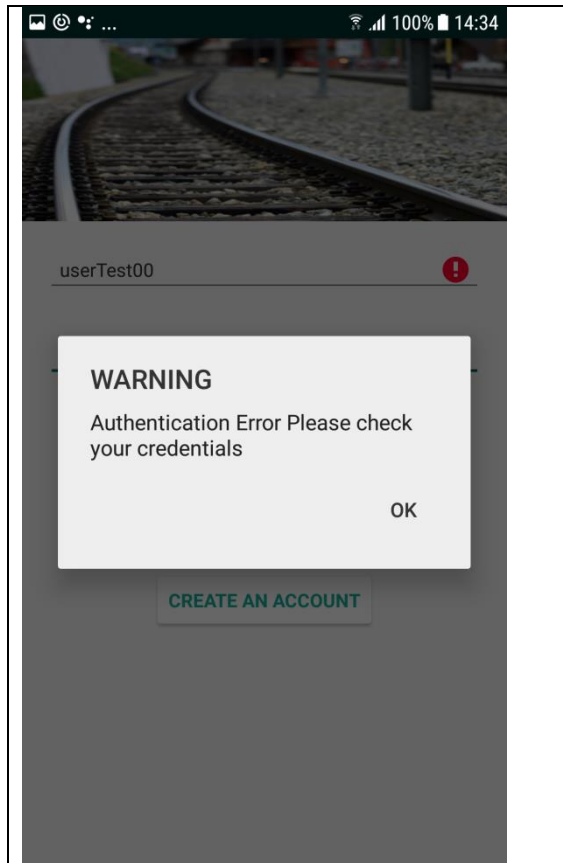
Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - Application installed on the device and cache emptied				

1	<p>Account Creation :</p> <p>Tester launches the application, then goes to the create account screen.</p> <p>Tester creates an account: he set testFrel@sncf20170930.fr in login field, testpwd in the password and testpawdtestpwd in password verification field, and touch the "Create an account" button.</p>	Error: "authentication error, please check your credentials"		Success	
---	---	--	--	---------	--

Fig 49 wrong credentials



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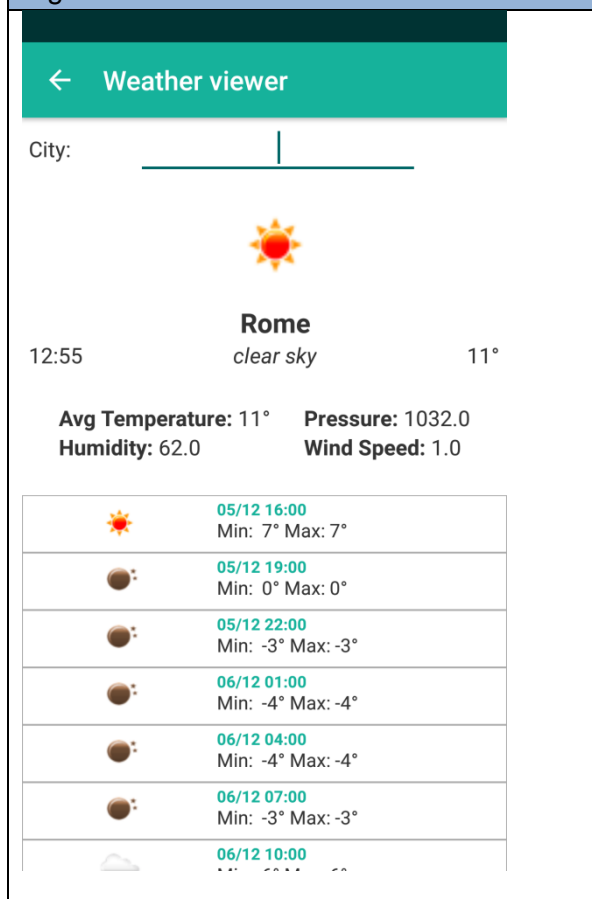
2.1.16 WP5 Weather Viewer

WP5-TC16 Weather Viewer	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	See the weather conditions for a specific place
Description	Access the weather for a city you want to visit for the following days
Status	Success
% passed	100%

Normal Client Configuration	
Regression	None
Test Case Tester	Gabriel Virette

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - Application installed on the device				
1	Click on the “Weather Viewer” tab	A page is displayed with a call to action to choose a city	Compliant	Success	None
2	Click on the empty field	A dropdown menu is displayed with a list of cities	Compliant	Success	None
3	Choose “Roma” in the list	The weather for “Roma” is displayed, you can scroll down to see the weather for the days to come	Compliant	Success	None

Fig 50 Weather viewer for Roma











2.1.17 WP5 My Wallet

WP5-TC17 My Wallet	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	See bought offers stored in the Wallet on different devices
Description	Open the wallet tab and see booked offers on different devices with the same account
Status	Success
% passed	100%

Normal Client Configuration	
Regression	None
Test Case Tester	Gabriel Virette

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - Application installed on the device - User with booked offers logged in				
1	Click on the “my wallet” tab	The wallet screen is displayed with the list of booked offers	Compliant	Success	None
2	Click on the any booked offer	The offer is displayed with the details for each travel leg	Different legs are displayed	GUI bug may occur	Bugs often occur for some O/D names, date, or time
3	Click on a travel leg	The details of the travel leg are displayed and instructions are shown depending on the ticket type: no e-ticket, QR code, or NFC ticket. (see validation test for the following steps).	Compliant	Success	None
4	Repeat the operation on another device	The user can see the same offers when he logs in to another device	Compliant	Success	None

Fig 51 List of my booked offers	Fig 52 Details of an offer	Fig 53 Details of a booked travel leg						
<div data-bbox="241 485 723 1347"> <div>  My wallet </div> <div> <p>Arrive on Friday, 22 December 2017</p> <p>12:48 Flughafen Tegel (Airport) (Berlin)\$TXL</p> <div> START TRACKING SAVE IN PASSPORT </div> </div> <div> <p>Leave on Friday, 22 December 2017</p> <p>07:06 LYON PART DIEU</p> <p>Arrive on Friday, 22 December 2017</p> <p>12:38 BARCELONA SANTS</p> <div> START TRACKING SAVE IN PASSPORT </div> </div> <div> <p>Leave on Friday, 22 December 2017</p> <p>07:06 LYON PART DIEU</p> <p>Arrive on Friday, 22 December 2017</p> <p>12:38 BARCELONA SANTS</p> <div> START TRACKING SAVE IN PASSPORT </div> </div> </div>	<div data-bbox="831 485 1312 1034"> <div>  Details </div> <div> <p>Leave on Friday, 22 December 2017</p> <p>LYON PART DIEU → BARCELONA SANTS</p> </div> <div> <p>LYON PART DIEU → NIMES</p> <p>6809</p> <div>  Departure: Fri, 22 Dec 2017 07:06 1h20 Arrival: Fri, 22 Dec 2017 08:26  </div> </div> <div> <p>NIMES → BARCELONA SANTS</p> <p>9731</p> <div>  Departure: Fri, 22 Dec 2017 09:04 3h34 Arrival: Fri, 22 Dec 2017 12:38  </div> </div> </div>	<div data-bbox="1420 485 1904 1347"> <div> LYON PART DIEU → NIMES </div> <div>  Friday, 22 December 2017 </div> <div> <p>7:06 LYON PART DIEU</p> <p>8:26 NIMES</p> </div> <table> <tr> <th>TRAIN</th><th>CARRIAGE</th><th>SEAT</th></tr> <tr> <td>6809</td><td>--</td><td>--</td></tr> </table> <div>  </div> <p>You have to print the ticket as no e-ticket is available for this trip. Please go to the counter or terminal with your ticket reference number: %1S</p> </div>	TRAIN	CARRIAGE	SEAT	6809	--	--
TRAIN	CARRIAGE	SEAT						
6809	--	--						

2.1.18 WP5 Modify Account

WP5-TC18 Modify Account	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Modify personal information of the user
Description	Modify personal information of the user and see the modifications for different devices
Status	Success
% passed	100%

Normal Client Configuration	
Regression	None
Test Case Tester	Gabriel Virette

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - Application installed on the device - User is logged in				
1	Once you're logged in the app with the user's credentials used in the previous tests, Push on the "modify account tab" in the menu	The modify account screen is displayed with empty fields for every category: - First Name - Family Name - Email - Password - Password	Compliant	Success	None



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Fig 54 Modify Account

← Modify Account

First name

Family name

email

password

password

MODIFY ACCOUNT

2.1.19 WP5 Travel Questionnaire

WP5-TC19 Travel Questionnaire	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Collect the opinion of a user on his satisfaction for a specific travel leg, and a specific mean of transportation
Description	Fill in the questionnaire displayed to give a feedback on your trip
Status	Success
% passed	100%

Normal Client Configuration	
Regression	None
Test Case Tester	Gabriel Virette

Id	Steps description	Expected result	Observed result	State	Associated defect
	Preconditions: - Application installed on the device - User is logged in				
1	Click on the “travel questionnaire” tab	The travel questionnaire screen is displayed with a travel leg you can choose as well as a mean of transportation, and a list of questions.	Compliant	Success	None
2	Choose on the dropdown list the Roma-Milan travel leg and “train” Choose Train as a mean of transportation	The designed item is set on the screen	Compliant	Success	None
3	Score every question in the list with a random number of stars Leave a comment on the text box designed to this aim	Stars are ticked according to the choices of the user It is possible to write some text in the text box for comments	Compliant	Success	None
4	Push the “submit” button	A pop-up stating “Questionnaire has been successfully sent” appears	Compliant	Success	None

Fig 55 Choose a leg and mode	Fig 56 Give your opinion
<p>← Travel questionnaire</p> <p>Travel leg: <u>Rome-Milan</u></p> <p>Mean of transportation: <u>train</u></p> <p>How would you rate the quality of comfort of your travel ?</p> <p>☆☆☆☆☆X N/A</p> <p>the quality of your customer service experience?</p> <p>☆☆☆☆☆X N/A</p> <p>the timeliness of your travel ?</p> <p>☆☆☆☆☆X N/A</p> <p>the quality of cleaning on board ?</p> <p>☆☆☆☆☆X N/A</p> <p>the quality of meals offered on board ?</p> <p>☆☆☆☆☆X N/A</p> <p>the Internet services (e.g. WiFi connection) available on</p>	<p>← Travel questionnaire</p> <p>the quality of cleaning on board ?</p> <p>☆☆☆☆☆X Average</p> <p>the quality of meals offered on board ?</p> <p>☆☆☆☆☆X Good</p> <p>the Internet services (e.g. WiFi connection) available on board ?</p> <p>☆☆☆☆☆X Average</p> <p>the travel quality experienced on board ?</p> <p>☆☆☆☆☆X Average</p> <p>Leave a comment:</p> <p><u>my trip was nice</u></p> <p>SUBMIT</p>

2.2 FUNCTIONAL CLOUD TESTS

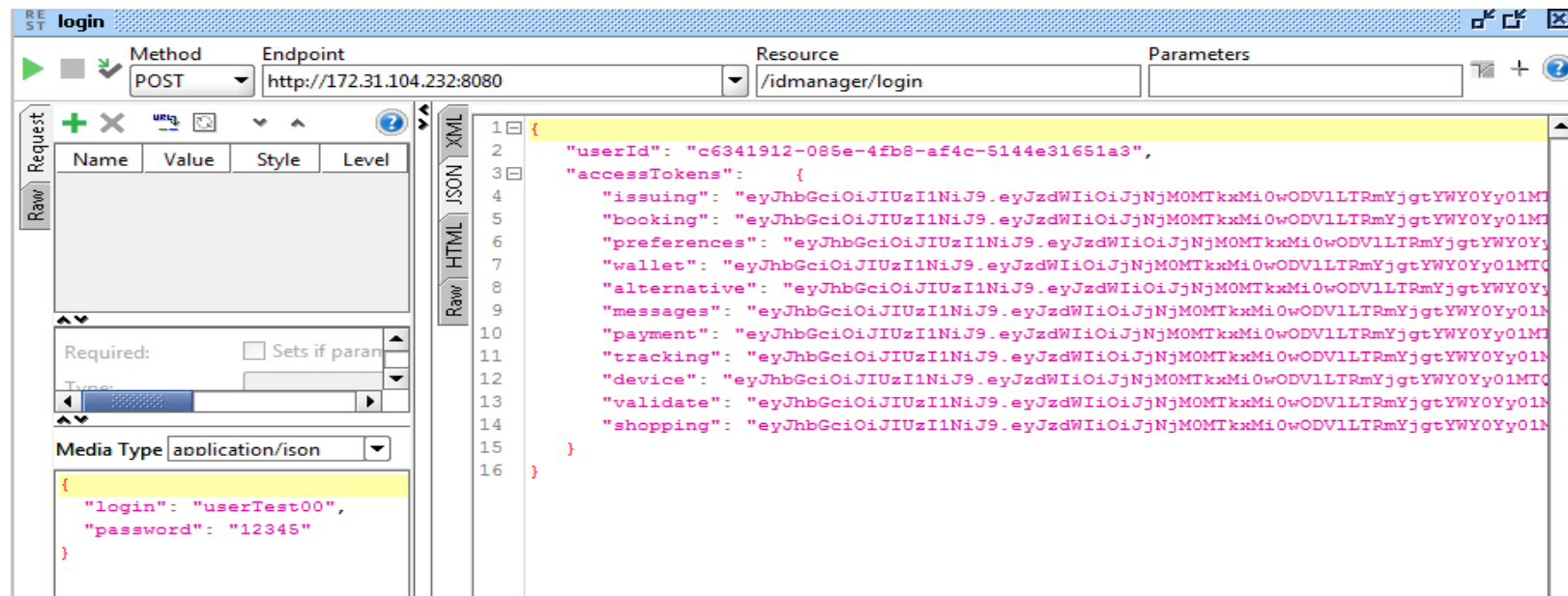
The following tests try to verify that each of the services provided by the Cloud Wallet works properly in isolation and is performed using the SOAPUI as simulator, thus omitting the need for a personal application that makes the requests. The basic precondition for all test is that the application was deployed in the application server and it started.

2.2.1 WP5 Login and obtain Tokens for testing other methods

WP5-TC20 Login	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the login method works properly and obtain the necessary tokens for the other tests.
Description	Call the method with correct parameters first and then with bad and look if the answer is the expected (200 when correct one and 401 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	Body: <pre>{ "login": "userTest00", "password": "12345" }</pre>	http://172.31.104.232:8080/idmanager/login	200 OK	200 OK	Success
B)	Body: <pre>{ "login": "userTest00", "password": "123456" }</pre>	http://172.31.104.232:8080/idmanager/login	401 Unauthorized Because the parameters are not match with the expected ones	401 Unauthorized	Success

A) Success



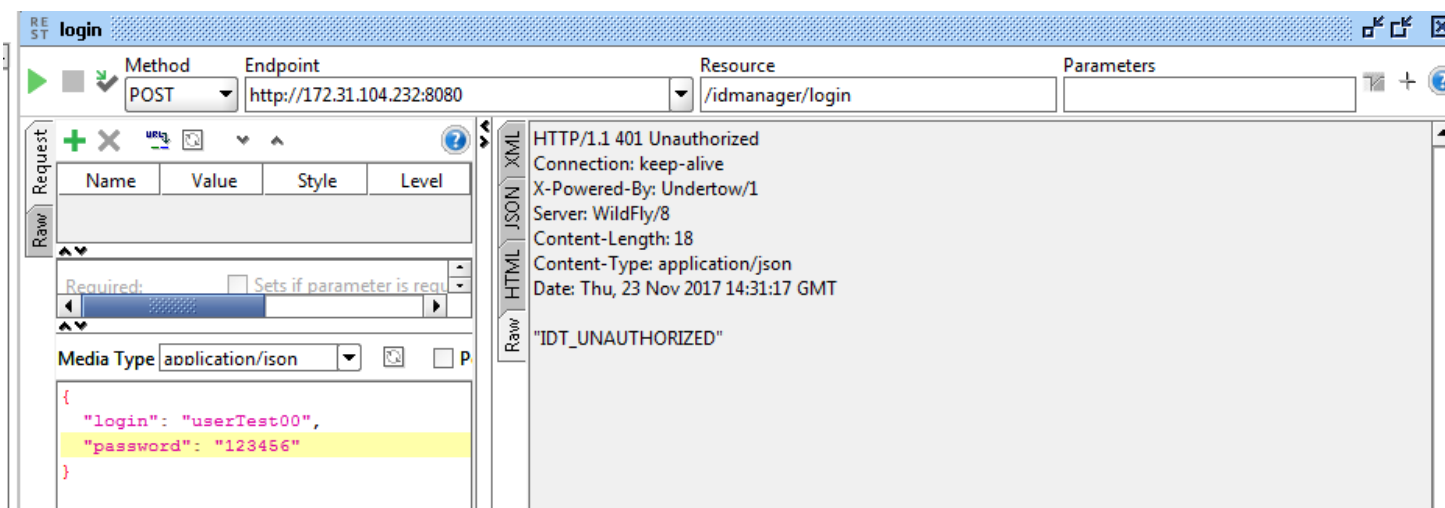
The screenshot shows a REST client interface with the following details:

- Method:** POST
- Endpoint:** http://172.31.104.232:8080
- Resource:** /idmanager/login
- Parameters:** (empty)
- Request:** A raw JSON request is shown in the left pane:


```
{
  "login": "userTest00",
  "password": "12345"
}
```
- Response:** A raw JSON response is shown in the right pane:


```
{
  "userId": "c6341912-085e-4fb8-af4c-5144e31651a3",
  "accessTokens": {
    "issuing": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJjNjMOMTxxMi0wODVlLTRmYjgtYWY0Yy01MTQ",
    "booking": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJjNjMOMTxxMi0wODVlLTRmYjgtYWY0Yy01MTQ",
    "preferences": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJjNjMOMTxxMi0wODVlLTRmYjgtYWY0Yy01MTQ",
    "wallet": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJjNjMOMTxxMi0wODVlLTRmYjgtYWY0Yy01MTQ",
    "alternative": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJjNjMOMTxxMi0wODVlLTRmYjgtYWY0Yy01MTQ",
    "messages": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJjNjMOMTxxMi0wODVlLTRmYjgtYWY0Yy01MTQ",
    "payment": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJjNjMOMTxxMi0wODVlLTRmYjgtYWY0Yy01MTQ",
    "tracking": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJjNjMOMTxxMi0wODVlLTRmYjgtYWY0Yy01MTQ",
    "device": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJjNjMOMTxxMi0wODVlLTRmYjgtYWY0Yy01MTQ",
    "validate": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJjNjMOMTxxMi0wODVlLTRmYjgtYWY0Yy01MTQ",
    "shopping": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJjNjMOMTxxMi0wODVlLTRmYjgtYWY0Yy01MTQ"
  }
}
```

B) Bad parameters



The screenshot shows a REST client interface with the following details:

- Method:** POST
- Endpoint:** http://172.31.104.232:8080
- Resource:** /idmanager/login
- Parameters:** (empty)

Request Body (JSON):

```
{
  "login": "userTest00",
  "password": "123456"
}
```

Response (HTTP/1.1 401 Unauthorized):

- Connection: keep-alive
- X-Powered-By: Undertow/1
- Server: WildFly/8
- Content-Length: 18
- Content-Type: application/json
- Date: Thu, 23 Nov 2017 14:31:17 GMT

Response Body (JSON):

```
{
  "IDT_UNAUTHORIZED": true
}
```

2.2.2 WP5 Payment module methods

WP5 –TC21 addUserCard	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the addUserCard method works properly and if it fails when the information already exists
Description	Call the method with correct parameters first and then with parameters which already exists in the system stored and look if the answer is the expected (200 when correct one and 409 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	Body: <pre>{ "cardDisplayName": "Name and Surname", "cardNumber": "3334 2122 1155 3968", "cardValidityEndMonth": "04", "cardValidityEndYear": "2018", "cardCVV": "333",</pre>	http://172.31.104.232:8080/AccessManager/PaymentTypes/addUserCard	200 OK	200 OK	Success

	<pre>"creditCardTypeId": 2, "userid": "c6341912-085e-4fb8-af4c-5144e31651a3" } Header: { "userIdToken": "The payment token from the login test" }</pre>				
B)	<pre>Body: { "cardDisplayName": "Name and Surname", "cardNumber": "3334 2122 1155 3968", "cardValidityEndMonth": "04", "cardValidityEndYear": "2018", "cardCVV": "333", "creditCardTypeId": 2, "userid": "c6341912-085e-4fb8-af4c-5144e31651a3" } Header: {</pre>	http://172.31.104.232:8080/AccessManager/PaymentTypes/addUserCard	<p>409 Conflict Because the card that we try to insert already exists in the system</p>	<p>409 Conflict</p>	<p>Success</p>

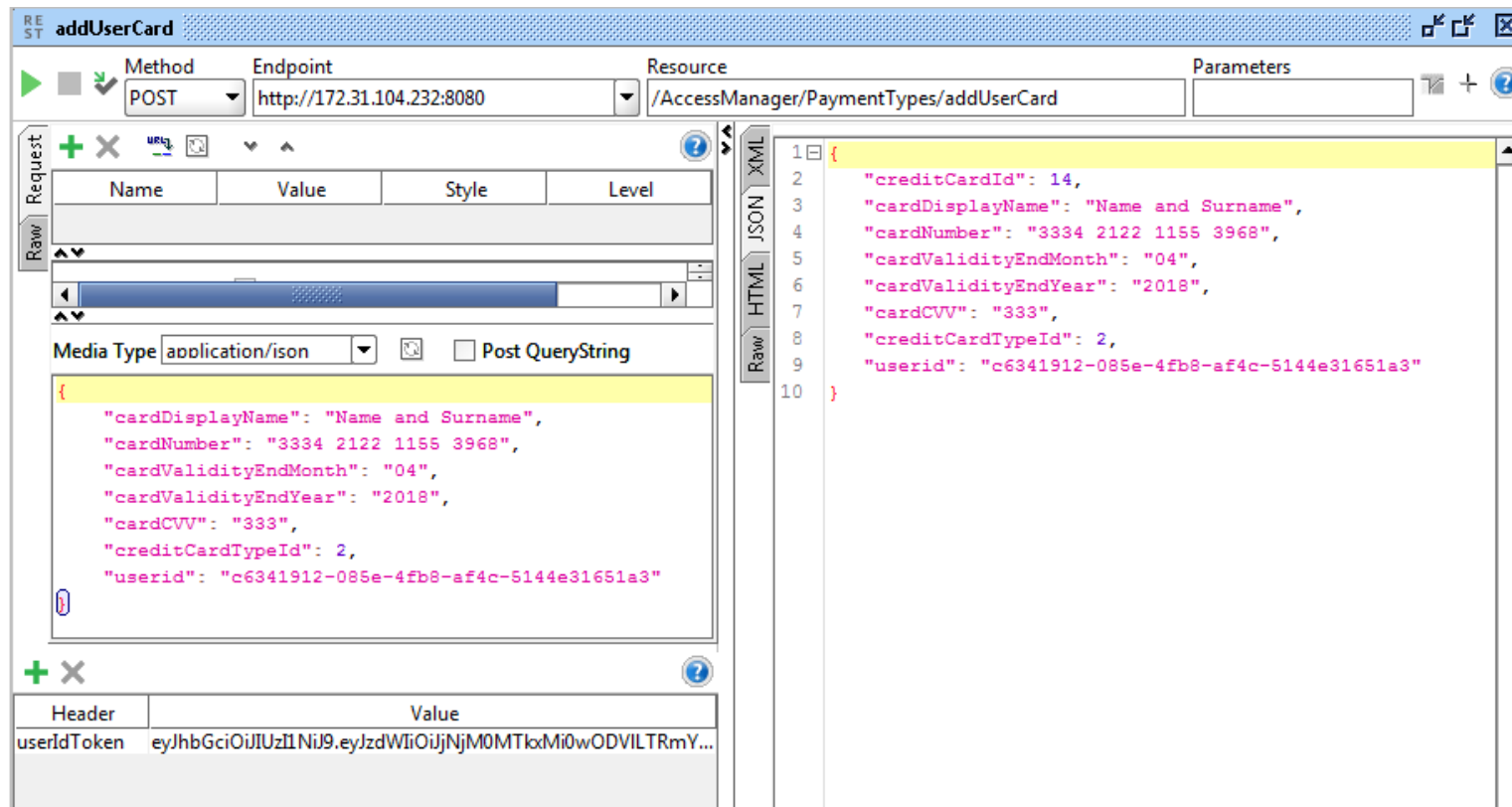


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	<pre>"userIdToken": "The payment token from the login test"</pre>				
--	---	--	--	--	--

A) addUserCard-Success



REST client interface showing a POST request to `http://172.31.104.232:8080/AccessManager/PaymentTypes/addUserCard`. The request body is a JSON object:

```
{
  "cardDisplayName": "Name and Surname",
  "cardNumber": "3334 2122 1155 3968",
  "cardValidityEndMonth": "04",
  "cardValidityEndYear": "2018",
  "cardCVV": "333",
  "creditCardTypeId": 2,
  "userid": "c6341912-085e-4fb8-af4c-5144e31651a3"
}
```

The response is a JSON object:

```
{
  "creditCardId": 14,
  "cardDisplayName": "Name and Surname",
  "cardNumber": "3334 2122 1155 3968",
  "cardValidityEndMonth": "04",
  "cardValidityEndYear": "2018",
  "cardCVV": "333",
  "creditCardTypeId": 2,
  "userid": "c6341912-085e-4fb8-af4c-5144e31651a3"
}
```

B) addUserCard-Conflict because this cardNumber already exists in the system

REST Client interface showing a POST request to `http://172.31.104.232:8080/AccessManager/PaymentTypes/addUserCard`.

Request:

- Method: POST
- Endpoint: `http://172.31.104.232:8080`
- Resource: `/AccessManager/PaymentTypes/addUserCard`
- Parameters: (empty)

Media Type: `application/json` (Selected)

Request Body (JSON):

```
{
  "cardDisplayName": "Name and Surname",
  "cardNumber": "3334 2122 1155 3968",
  "cardValidityEndMonth": "04",
  "cardValidityEndYear": "2018",
  "cardCVV": "333",
  "creditCardTypeId": 2,
  "userid": "c6341912-085e-4fb8-af4c-5144e31651a"
}
```

Headers:

Header	Value
<code>userIdToken</code>	<code>eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOi...</code>

Response:

HTTP/1.1 409 Conflict

Connection: keep-alive

X-Powered-By: Undertow/1

Server: WildFly/8

Content-Length: 0

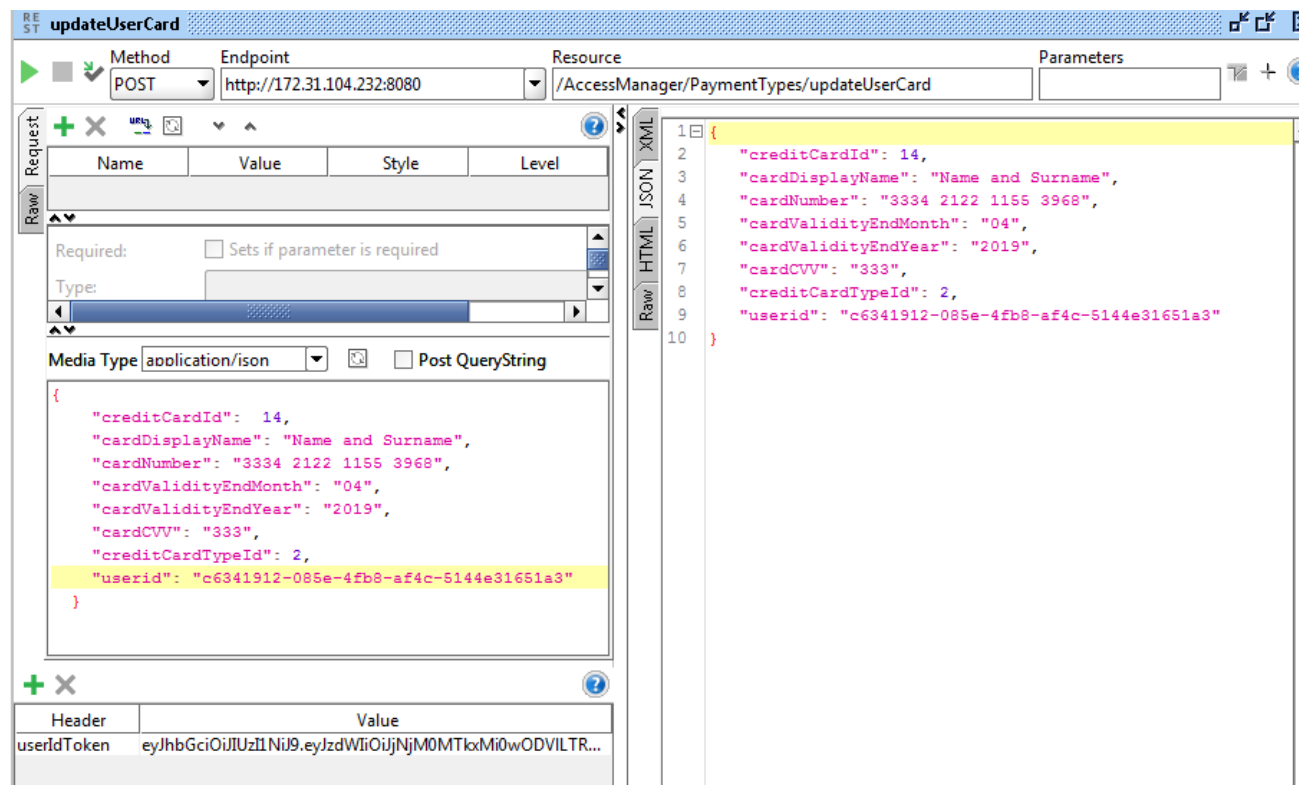
Date: Thu, 23 Nov 2017 14:44:28 GMT

WP5-TC22 updateUserCard	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the updateUserCard method works properly and if it fails when the information doesn't exist yet
Description	Call the method with correct parameters first and then with parameters which doesn't exist yet in the system stored and look if the answer is the expected (200 when correct one and 204 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	Body: <pre>{ "creditCardId": 14, "cardDisplayName": "Name and Surname", "cardNumber": "3334 2122 1155 3968", "cardValidityEndMonth": "04", "cardValidityEndYear": "2019", "cardCVV": "333", "creditCardTypeId": 2, "userid": "c6341912-085e-4fb8-af4c-5144e31651a3"</pre>	http://172.31.104.232:8080/AccessManager/PaymentTypes/updateUserCard	200 OK	200 OK	Success

	<pre> } Header: { "userIdToken": "The payment token from the login test" } </pre>				
B)	<pre> Body: { "creditCardId": 14, "cardDisplayName": "Name and Surname", "cardNumber": "3334 2122 1155 3990", "cardValidityEndMonth": "04", "cardValidityEndYear": "2019", "cardCVV": "333", "creditCardTypeId": 2, "userId": "c6341912-085e-4fb8-af4c- 5144e31651a3" } Header: { "userIdToken": "The payment token from the login test" } </pre>	http://172.31.104.232:8080/AccessManager/PaymentTypes/updateUserCard	204 No Content Because the card that we try to update doesn't exist in the system	204 Content No	Success

A) updateUserCard-Success



REST client interface showing a successful POST request to `http://172.31.104.232:8080/AccessManager/PaymentTypes/updateUserCard`.

Request:

- Method: POST
- Endpoint: `http://172.31.104.232:8080`
- Resource: `/AccessManager/PaymentTypes/updateUserCard`
- Parameters: (empty)
- Media Type: `application/json`
- Post QueryString: (unchecked)

Request Body (JSON):

```
{
  "creditCardId": 14,
  "cardDisplayName": "Name and Surname",
  "cardNumber": "3334 2122 1155 3968",
  "cardValidityEndMonth": "04",
  "cardValidityEndYear": "2019",
  "cardCVV": "333",
  "creditCardTypeId": 2,
  "userid": "c6341912-085e-4fb8-af4c-5144e31651a3"
}
```

Response:

```
{
  "creditCardId": 14,
  "cardDisplayName": "Name and Surname",
  "cardNumber": "3334 2122 1155 3968",
  "cardValidityEndMonth": "04",
  "cardValidityEndYear": "2019",
  "cardCVV": "333",
  "creditCardTypeId": 2,
  "userid": "c6341912-085e-4fb8-af4c-5144e31651a3"
}
```

Headers:

Header	Value
userIdToken	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpzZW50a3VzIj06MTM0MTkxMi0wODVILTR...

B) updateUserCard-No content because this cardNumber doesn't exist yet in the system

REST client interface showing a POST request to `http://172.31.104.232:8080/AccessManager/PaymentTypes/updateUserCard`.

Request:

- Method: POST
- Endpoint: `http://172.31.104.232:8080`
- Resource: `/AccessManager/PaymentTypes/updateUserCard`
- Parameters: (empty)
- Media Type: `application/json`
- Post QueryString: (unchecked)

Request Body (JSON):

```
{
  "creditCardId": 14,
  "cardDisplayName": "Name and Surname",
  "cardNumber": "3334 2122 1155 3990",
  "cardValidityEndMonth": "04",
  "cardValidityEndYear": "2019",
  "cardCVV": "333",
  "creditCardTypeId": 2,
  "userid": "c6341912-085e-4fb8-af4c-5144e31651a"
}
```

Response:

- HTTP/1.1 204 No Content
- Connection: keep-alive
- X-Powered-By: Undertow/1
- Server: WildFly/8
- Content-Length: 0
- Date: Thu, 23 Nov 2017 14:48:50 GMT

Header Table:

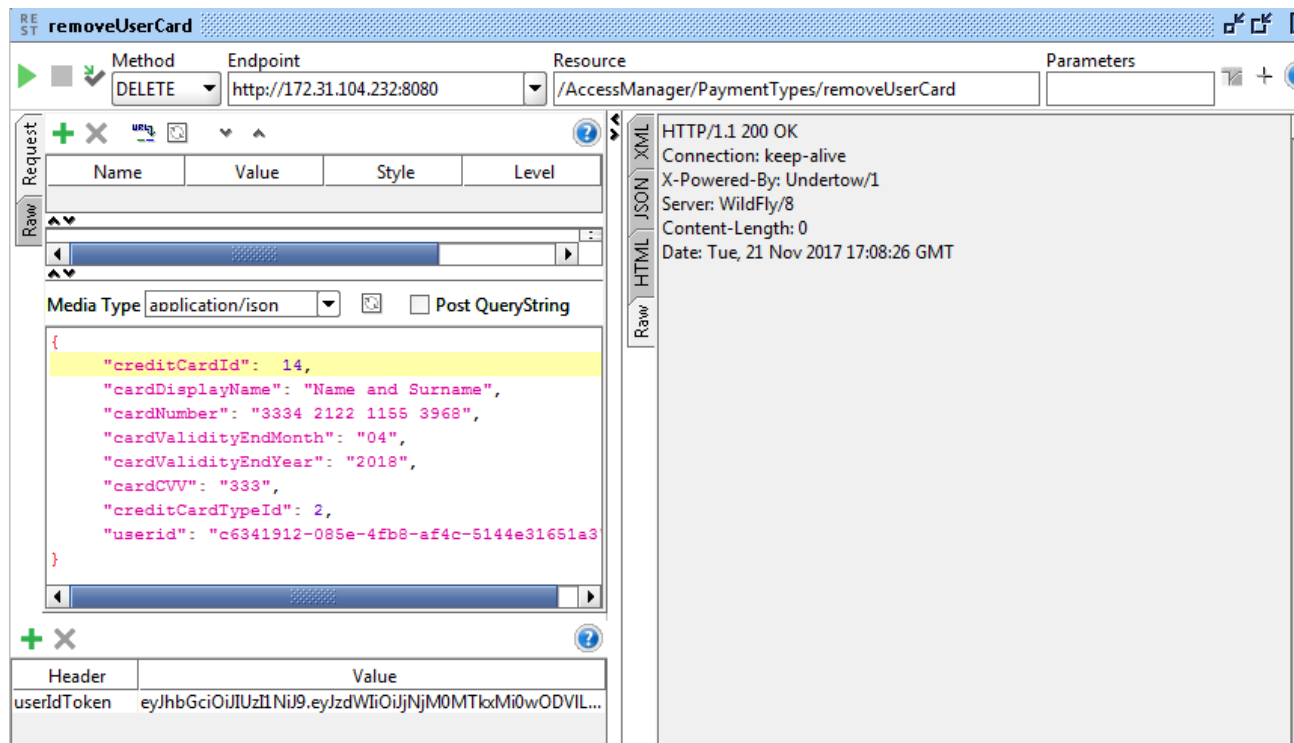
Header	Value
userIdTo...	eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJNjM0MTkxMi0wODVILTR...

WP5-TC23 removeUserCard	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the removeUserCard method works properly and if it fails when the information doesn't exist yet
Description	Call the method with correct parameters first and then with parameters which doesn't exist yet in the system stored and look if the answer is the expected (200 when correct one and 204 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	Body: <pre>{ "creditCardId": 14, "cardDisplayName": "Name and Surname", "cardNumber": "3334 2122 1155 3968", "cardValidityEndMonth": "04", "cardValidityEndYear": "2019", "cardCVV": "333", "creditCardTypeId": 2, "userid": "c6341912-085e-4fb8-af4c-5144e31651a3"</pre>	http://172.31.104.232:8080/AccessManager/PaymentTypes/removeUserCard	200 OK	200 OK	Success

	<pre> } Header: { "userIdToken": "The payment token from the login test" } </pre>				
B)	<pre> Body: { "creditCardId": 14, "cardDisplayName": "Name and Surname", "cardNumber": "3334 2122 1155 3990", "cardValidityEndMonth": "04", "cardValidityEndYear": "2019", "cardCVV": "333", "creditCardTypeId": 2, "userId": "c6341912-085e-4fb8-af4c-5144e31651a3" } Header: { "userIdToken": "The payment token from the login test" } </pre>	http://172.31.104.232:8080/AccessManager/PaymentTypes/removeUserCard	204 No Content Because the card that we try to remove does not exist in the system	204 No Content	Success

A) removeUserCard-Success



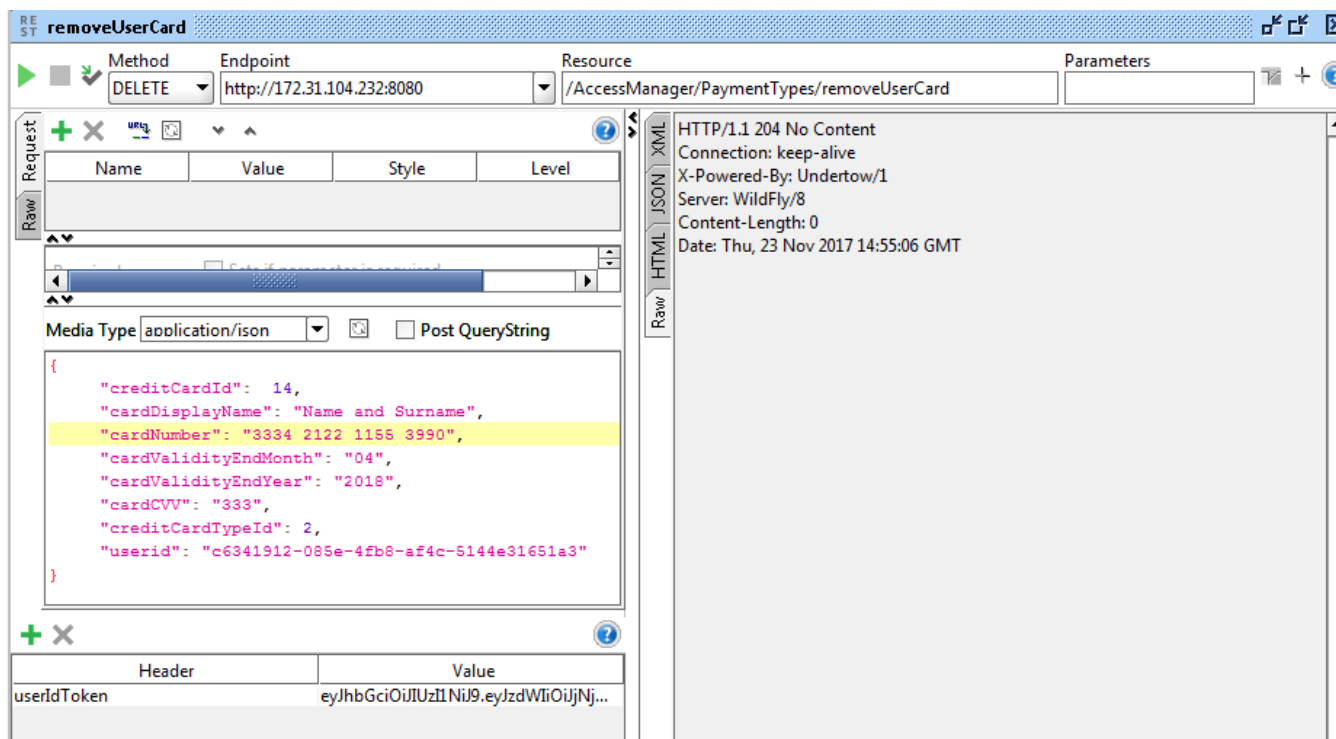
The screenshot shows a REST client interface with the following details:

- Method:** DELETE
- Endpoint:** http://172.31.104.232:8080
- Resource:** /AccessManager/PaymentTypes/removeUserCard
- Parameters:** (empty)
- Media Type:** application/json
- Request Body (JSON):**

```
{
  "creditCardId": 14,
  "cardDisplayName": "Name and Surname",
  "cardNumber": "3334 2122 1155 3968",
  "cardValidityEndMonth": "04",
  "cardValidityEndYear": "2018",
  "cardCVV": "333",
  "creditCardTypeId": 2,
  "userid": "c6341912-085e-4fb8-af4c-5144e31651a3"
}
```
- Response:** HTTP/1.1 200 OK
 - Connection: keep-alive
 - X-Powered-By: Undertow/1
 - Server: WildFly/8
 - Content-Length: 0
 - Date: Tue, 21 Nov 2017 17:08:26 GMT
- Header Table:**

Header	Value
userIdToken	eyJhbGciOiJIUzI1Ni9.eyJzdWIiOiJNjM0MTIxMi0wODVIL...

B) removeUserCard-No content because this cardNumber doesn't exist yet in the system



removeUserCard

Method: DELETE
Endpoint: http://172.31.104.232:8080
Resource: /AccessManager/PaymentTypes/removeUserCard

Request

Name	Value	Style	Level
Media Type: application/json			

```
{
  "creditCardId": 14,
  "cardDisplayName": "Name and Surname",
  "cardNumber": "3334 2122 1155 3990",
  "cardValidityEndMonth": "04",
  "cardValidityEndYear": "2018",
  "cardCVV": "333",
  "creditCardTypeId": 2,
  "userid": "c6341912-085e-4fb8-af4c-5144e31651a3"
}
```

Response

```
HTTP/1.1 204 No Content
Connection: keep-alive
X-Powered-By: Undertow/1
Server: WildFly/8
Content-Length: 0
Date: Thu, 23 Nov 2017 14:55:06 GMT
```

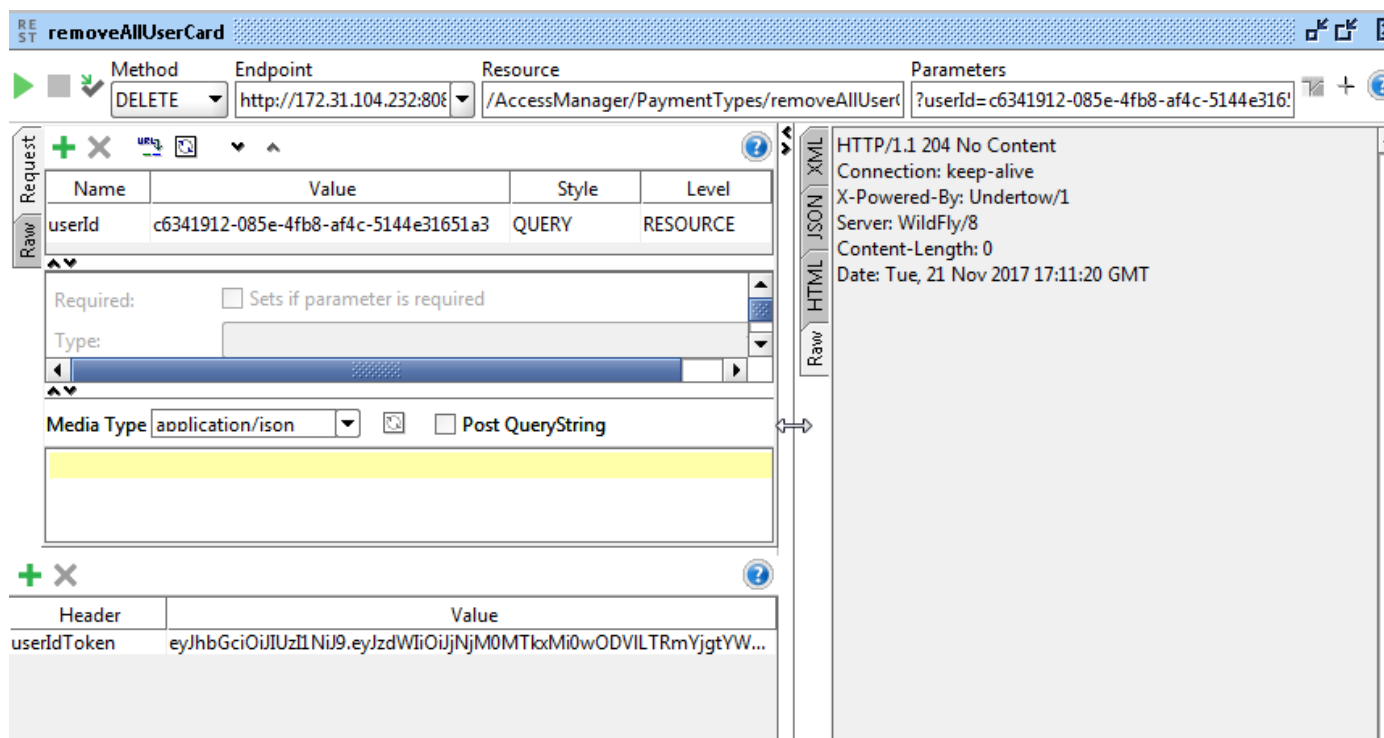
Header	Value
userIdToken	eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJNj...

WP5-TC24 removeAllUserCards	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the removeAllUserCards method works properly and if it fails when the user hasn't payment information
Description	Call the method with correct parameters first and then with parameters which the user hasn't payment information in the system stored and look if the answer is the expected (200 when correct one and 204 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3" }</pre> Header: <pre>{</pre>	http://172.31.104.232:8080/AccessManager/PaymentTypes/removeAllUserCards	200 OK	200 OK	Success

	<pre> "userldToken": "The payment token from the login test" } </pre>				
B)	<p>QueryParameters:</p> <pre> { "userld": "c6341912-085e-4fb8-af4c-5144e31651a3" } </pre> <p>Header:</p> <pre> { "userldToken": "The payment token from the login test" } </pre>	<p>http://172.31.104.232:8080/AccessManager/PaymentTypes/removeAllUserCards</p>	<p>204 No Content Because the user has not any associated card</p>	<p>204 No Content</p>	<p>Success</p>

A) removeAllUserCards-Success



The screenshot shows a REST client interface with the following details:

- Method:** DELETE
- Endpoint:** http://172.31.104.232:8080
- Resource:** /AccessManager/PaymentTypes/removeAllUserCard
- Parameters:** ?userId=c6341912-085e-4fb8-af4c-5144e3161a3
- Request Headers:**

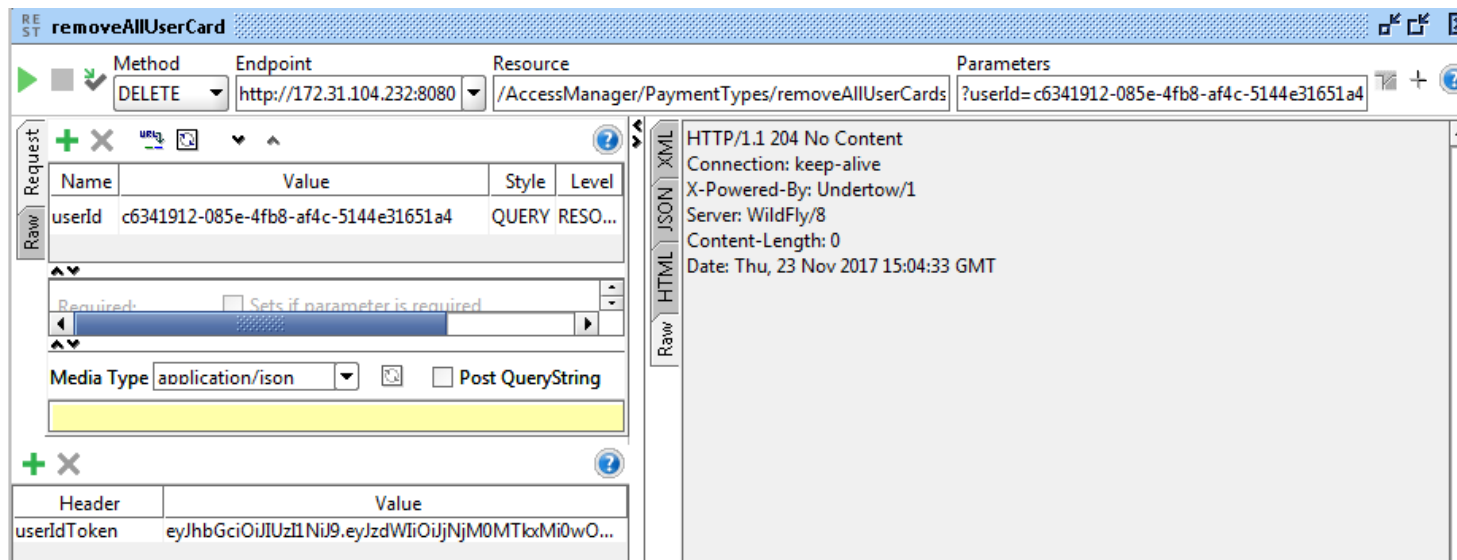
Name	Value	Style	Level
userId	c6341912-085e-4fb8-af4c-5144e3161a3	QUERY	RESOURCE
- Media Type:** application/json
- Response:**

```

HTTP/1.1 204 No Content
Connection: keep-alive
X-Powered-By: Undertow/1
Server: WildFly/8
Content-Length: 0
Date: Tue, 21 Nov 2017 17:11:20 GMT

```

B) removeAllUserCards-No content because the user hasn't any cardNumber



The screenshot shows a REST client interface with the following details:

- Method:** DELETE
- Endpoint:** http://172.31.104.232:8080
- Resource:** /AccessManager/PaymentTypes/removeAllUserCards
- Parameters:** ?userId=c6341912-085e-4fb8-af4c-5144e31651a4
- Request:**
 - Headers:**

Name	Value	Style	Level
userId	c6341912-085e-4fb8-af4c-5144e31651a4	QUERY	RESO...
 - Media Type:** application/ison
 - Post QueryString:** (unchecked)
- Response:**
 - Status:** HTTP/1.1 204 No Content
 - Headers:**
 - Connection: keep-alive
 - X-Powered-By: Undertow/1
 - Server: WildFly/8
 - Content-Length: 0
 - Date: Thu, 23 Nov 2017 15:04:33 GMT

WP5-TC25 getAllUserCards	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the getAllUserCards method works properly and if it fails when the user hasn't payment information
Description	Call the method with correct parameters first and then with parameters which the user hasn't payment information in the system stored and look if the answer is the expected (200 when correct one and 204 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3" }</pre> Header: <pre>{ "userIdToken": "The payment token from the login test" }</pre>	http://172.31.104.232:8080/AccessManager/PaymentTypes/getAllUserCards	200 OK	200 OK	Success



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B)	<p>QueryParameters:</p> <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3" }</pre> <p>Header:</p> <pre>{ "userIdToken": "The payment token from the login test" }</pre>	<p>http://172.31.104.232:8080/AccessManager/PaymentTypes/getAllUserCards</p>	<p>204 No Content Because the user has not any associated card</p>	<p>204 No Content</p>	<p>Success</p>
----	--	--	--	-----------------------	-----------------------



A) getAllUserCard-Success

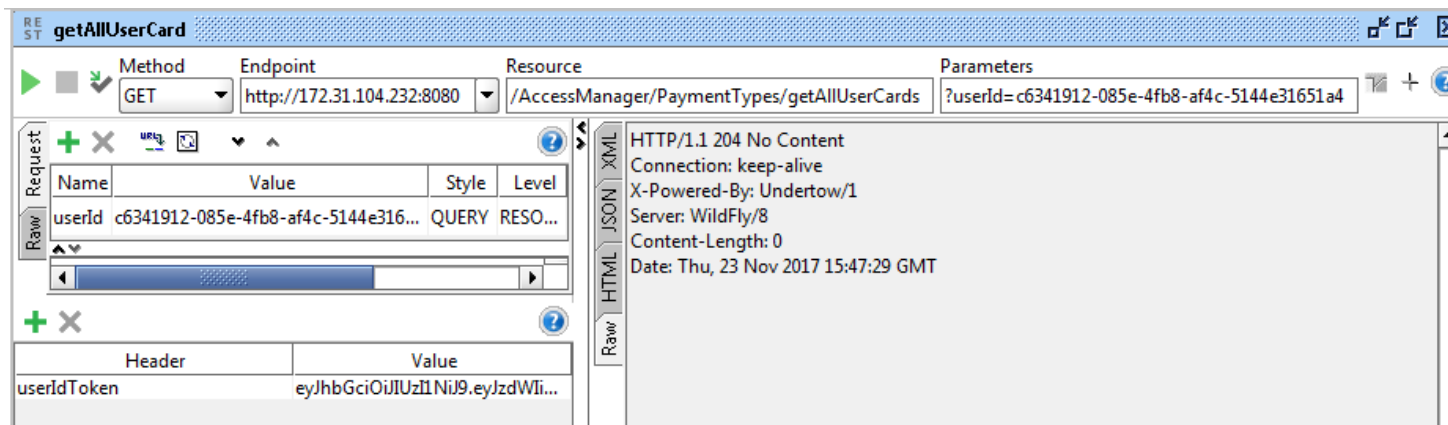
The screenshot shows the Swagger UI for the endpoint `GET /AccessManager/PaymentTypes/getAllUserCards`. The parameters section indicates a query parameter `userId` with the value `c6341912-085e-4fb8-af4c-5144e31651`. The response body is shown in JSON format, representing a list of credit card details.

```

1  [
2    {
3      "creditCardId": 14,
4      "cardDisplayName": "Name and Surname",
5      "cardNumber": "3334 2122 1155 3968",
6      "cardValidityEndMonth": "04",
7      "cardValidityEndYear": "2019",
8      "cardCVV": "333",
9      "creditCardTypeId": 2,
10     "userid": "c6341912-085e-4fb8-af4c-5144e31651a3"
11   }
12 ]

```

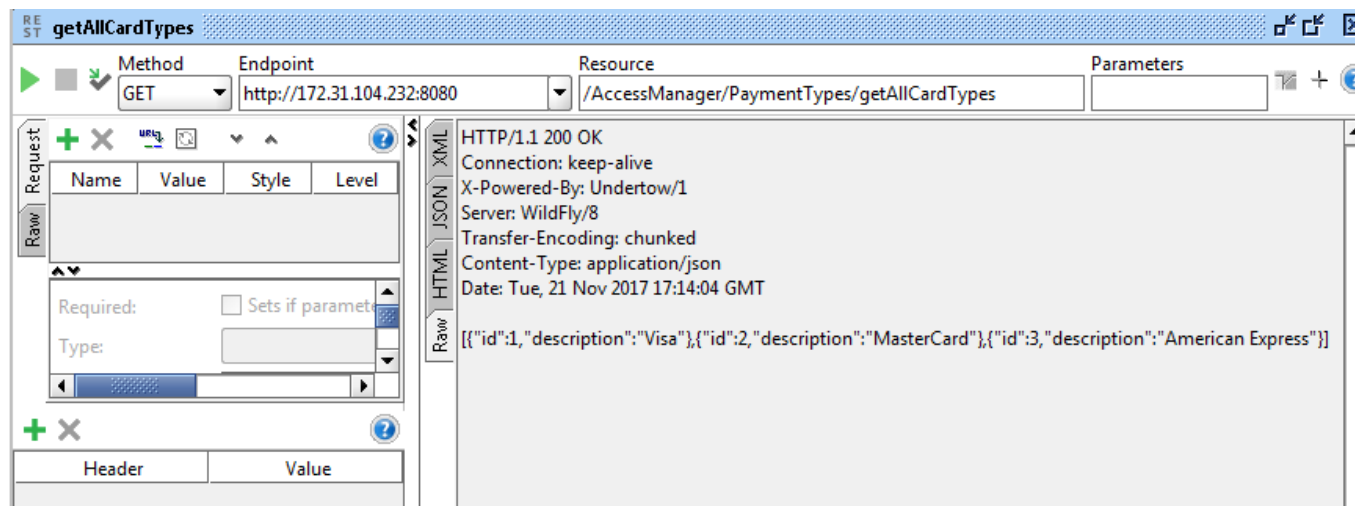
B) getAllUserCards-No content because the user hasn't any cardNumber



WP5-TC26 getAllCardTypes	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the getAllCardTypes method works properly
Description	Call the method and look if the answer is the expected (200)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	None	http://172.31.104.232:8080/AccessManager/PaymentTypes/getAllCardTypes	200 OK	200 OK	Success

A) getAllCardTypes-Success



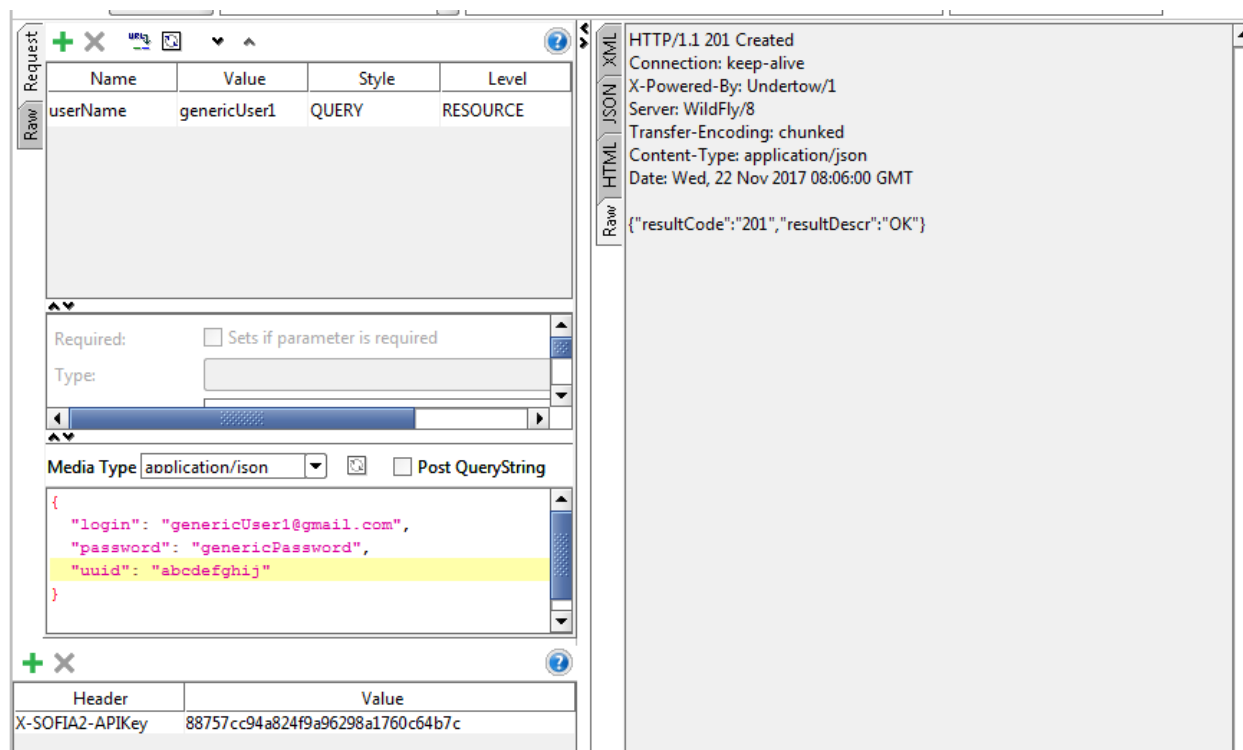
2.2.3 WP5 User account and its devices methods

WP5-27 createUser	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the createUser method works properly and if it fails when the user already exists
Description	Call the method with correct parameters first and then with parameters which already exists in the system stored and look if the answer is the expected (201 when correct one and 409 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: <pre>{ "userName": "genericUser1" }</pre> Header: <pre>{ "X-SOFIA2-APIKey": "88757cc94a824f9a96298a1760c64b7c" }</pre>	http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/WalletManager/data/userId	201 Created	201 Created	Success

	<pre> } Body: { "login": "genericUser1@gmail.com", "password": "genericPassword", "uuid": "abcdefghij" } </pre>				
B)	<pre> QueryParameters: { "userName": "genericUser1" } Header: { "X-SOFIA2-APIKey": "88757cc94a824f9a96298a1760c64b7c" } Body: { "login": "genericUser1@gmail.com", "password": "genericPassword", "uuid": "abcdefghij" } </pre>	<p>http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/WalletManager/data/userId</p>	<p>409 Conflict Because already exists a user with these parameters in the system</p>	<p>409 Conflict</p>	<p>Success</p>

A) createUser-Success



The screenshot displays a web client interface with two main panels: Request and Response.

Request Panel:

Name	Value	Style	Level
userName	genericUser1	QUERY	RESOURCE

Below the table, there are settings for the request:

- Required: ☐ Sets if parameter is required
- Type:
- Media Type: ☐ Post QueryString

The request body is shown in a text area:

```
{
  "login": "genericUser1@gmail.com",
  "password": "genericPassword",
  "uuid": "abcdefghij"
}
```

At the bottom, there is a header section:

Header	Value
X-SOFIA2-APIKey	88757cc94a824f9a96298a1760c64b7c

Response Panel:

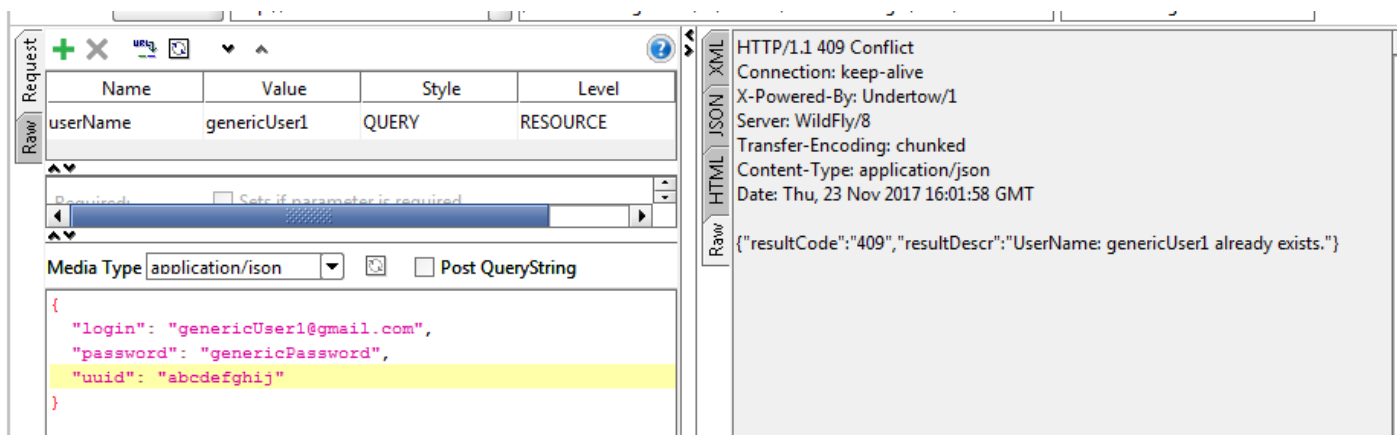
The response status is HTTP/1.1 201 Created. The headers are:

- Connection: keep-alive
- X-Powered-By: Undertow/1
- Server: WildFly/8
- Transfer-Encoding: chunked
- Content-Type: application/json
- Date: Wed, 22 Nov 2017 08:06:00 GMT

The response body is a JSON object:

```
{"resultCode": "201", "resultDescr": "OK"}
```

B) createUser-Conflict because this user already exists



The screenshot shows a web client interface with a request and response pane. The request is a POST to the resource 'genericUser1' with a JSON body. The response is an HTTP 409 Conflict with a JSON body indicating the user already exists.

Name	Value	Style	Level
userName	genericUser1	QUERY	RESOURCE

Media Type: application/json

```
{
  "login": "genericUser1@gmail.com",
  "password": "genericPassword",
  "uuid": "abcdefghij"
}
```

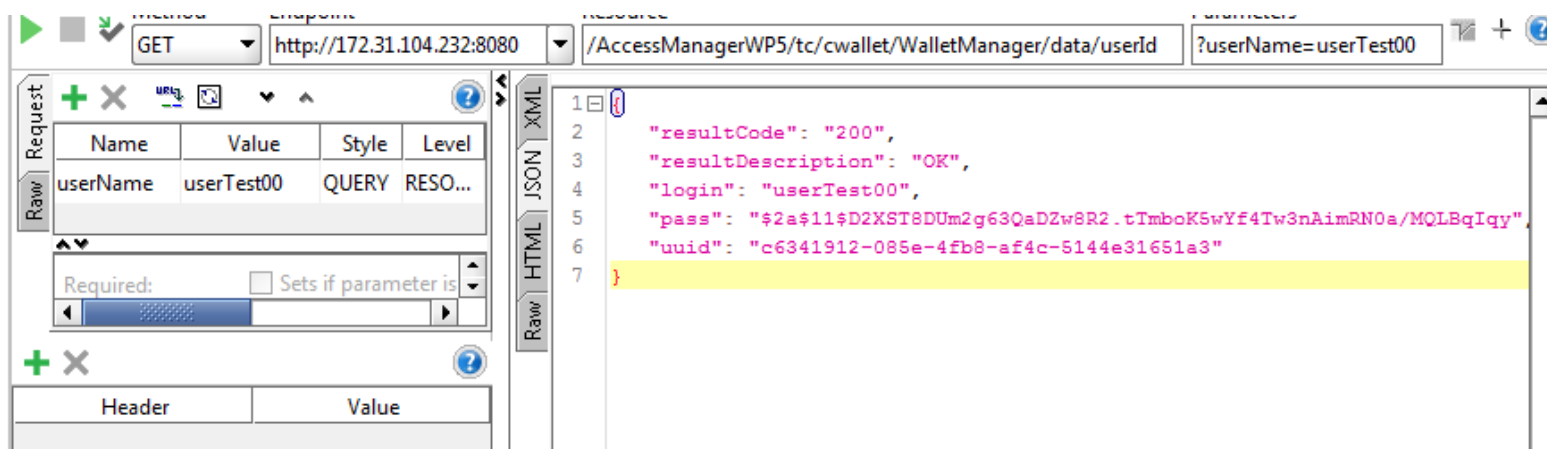
HTTP/1.1 409 Conflict
 Connection: keep-alive
 X-Powered-By: Undertow/1
 Server: WildFly/8
 Transfer-Encoding: chunked
 Content-Type: application/json
 Date: Thu, 23 Nov 2017 16:01:58 GMT

```
{"resultCode": "409", "resultDescr": "UserName: genericUser1 already exists."}
```

WP5-28 checkUser	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the checkUser method works properly and if it fails when the user doesn't exist yet
Description	Call the method with correct parameters first and then with parameters which don't exist yet in the system stored and look if the answer is the expected (200 when correct one and 404 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: { "userName": "userTest00" }	http://172.31.104.232:8080/AccessManager WP5/tc/cwallet/WalletManager/data/userId	200 OK	200 OK	Success
B)	QueryParameters: { "userName": "unknownUser" }	http://172.31.104.232:8080/AccessManager WP5/tc/cwallet/WalletManager/data/userId	404 Not Found this userName in the system	404 Not Found	Success

A) checkUser-Success



The screenshot shows a web browser window with the following details:

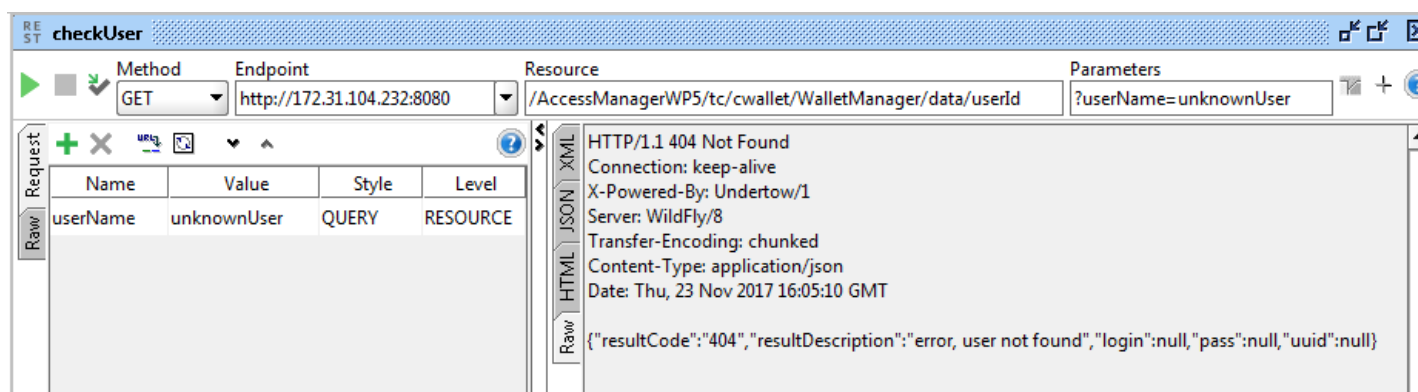
- Method:** GET
- URL:** http://172.31.104.232:8080 /AccessManagerWP5/tc/cwallet/WalletManager/data/userId
- Query String:** ?userName=userTest00
- Response Body (JSON):**

```

1 {
2   "resultCode": "200",
3   "resultDescription": "OK",
4   "login": "userTest00",
5   "pass": "$2a$11$D2XST8DUM2g63QaDZw8R2.tImboK5wYf4Tw3nAimRN0a/MQLBqIqy",
6   "uuid": "c6341912-085e-4fb8-af4c-5144e31651a3"
7 }

```


B) checkUser-Not Found because this user doesn't exist yet in the system



WP5-29 setUserDevice	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the setUserDevice method works properly and if it fails when the userId doesn't exit yet
Description	Call the method with correct parameters first and then with parameters which don't exist yet in the system stored and look if the answer is the expected (200 or 205 when correct one and 404 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: { "userId": "c6341912-085e-4fb8-af4c-5144e31651a3" } Body: { "deviceId": "SamsungS6" }	http://172.31.104.232:8080 /AccessManagerWP5/tc/cwallet/WalletManager/userDevice	200 OK or 205 Reset Content	205 Reset Content	Success

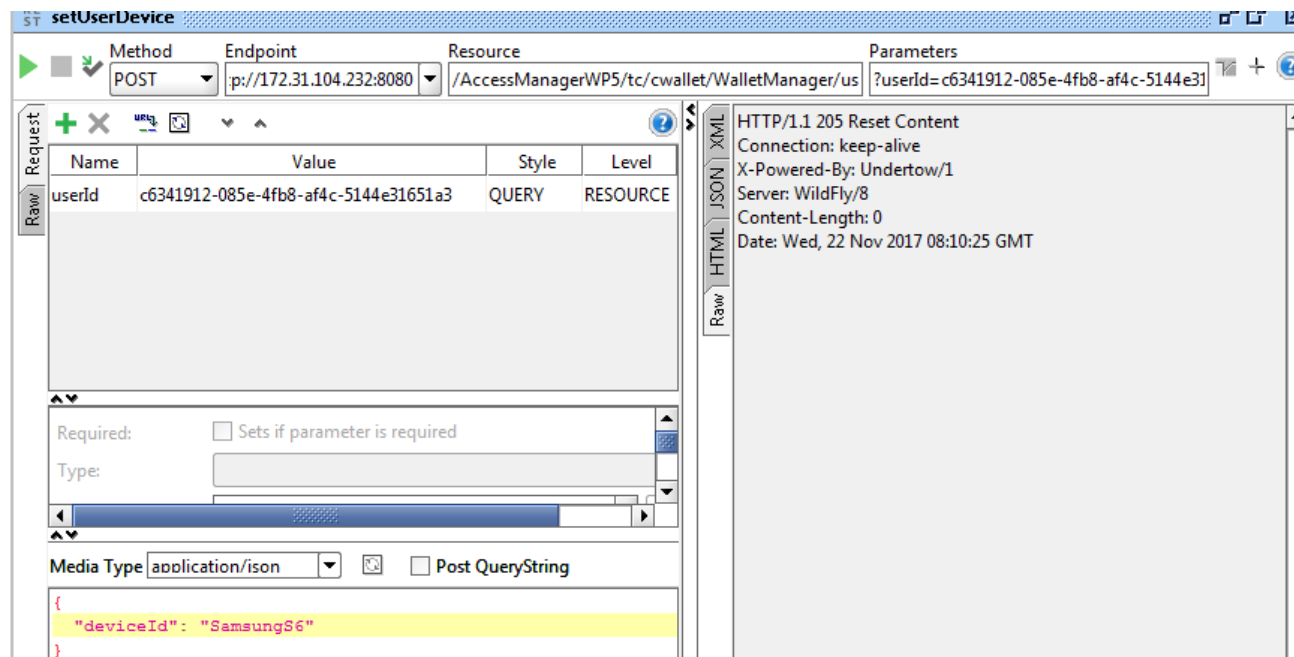


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B)	<p>QueryParameters:</p> <pre>{ "userId": "unknownUser" }</pre> <p>Body:</p> <pre>{ "deviceId": "SamsungS6" }</pre>	<p>http://172.31.104.232:8080 /AccessManagerWP5/tc/cwallet/WalletManager/userDevice</p>	<p>404 Not Found this user in the system</p>	<p>404 Not Found</p>	<p>Success</p>
----	--	---	--	----------------------	----------------

A) setUserDevice-Success



ST setUserDevice

Method: POST Endpoint: p://172.31.104.232:8080 Resource: /AccessManagerWP5/tc/cwallet/WalletManager/us Parameters: ?userId=c6341912-085e-4fb8-af4c-5144e31651a3

Name	Value	Style	Level
userId	c6341912-085e-4fb8-af4c-5144e31651a3	QUERY	RESOURCE

Required: ☐ Sets if parameter is required

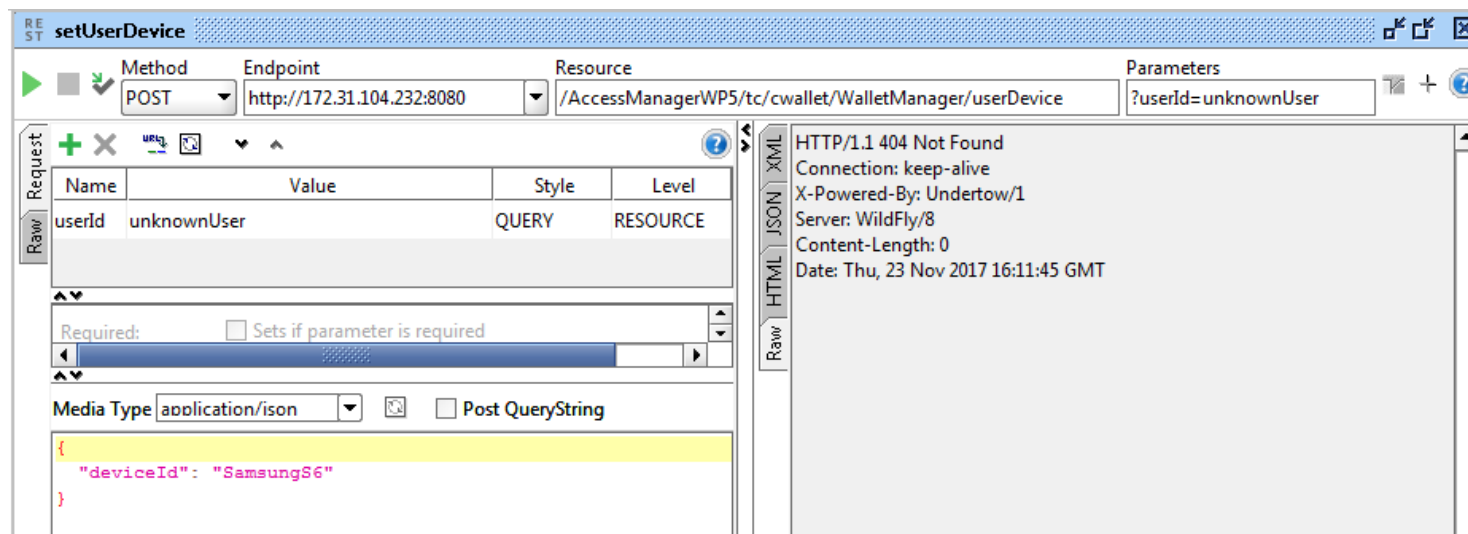
Type:

Media Type: application/json ☐ Post QueryString

```
{
  "deviceId": "SamsungS6"
}
```

HTTP/1.1 205 Reset Content
 Connection: keep-alive
 X-Powered-By: Undertow/1
 Server: WildFly/8
 Content-Length: 0
 Date: Wed, 22 Nov 2017 08:10:25 GMT

B) setUserDevice-Not found because the userId doesn't exist yet.



The screenshot shows a REST client interface with the following details:

- Method:** POST
- Endpoint:** http://172.31.104.232:8080
- Resource:** /AccessManagerWP5/tc/cwallet/WalletManager/userDevice
- Parameters:** ?userId=unknownUser

The request body is a JSON object:

```
{
  "deviceId": "SamsungS6"
}
```

The response is an HTTP 404 Not Found error with the following headers:

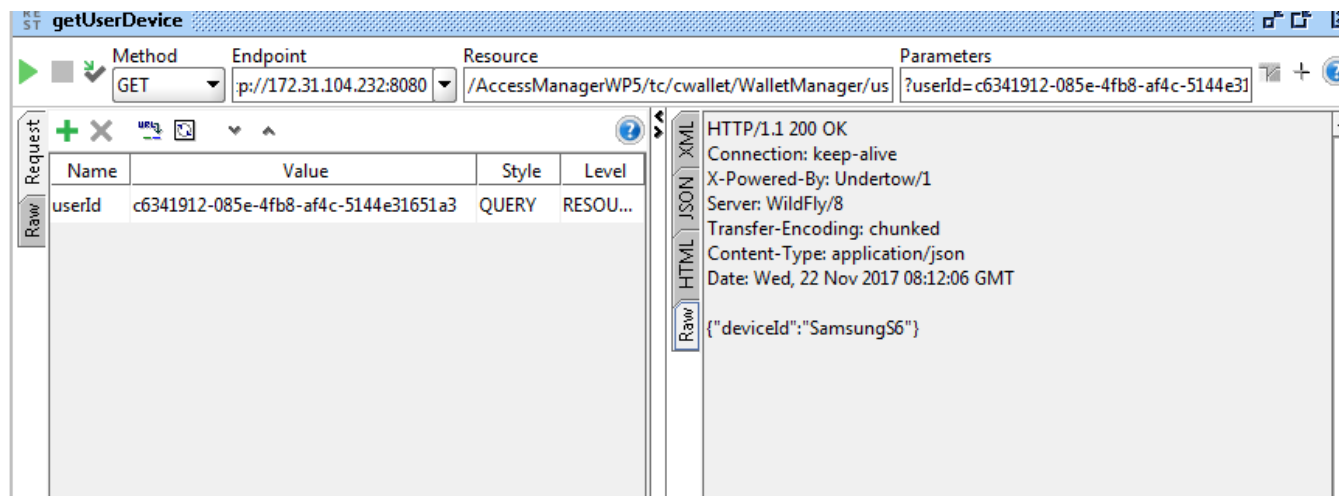
```
HTTP/1.1 404 Not Found
Connection: keep-alive
X-Powered-By: Undertow/1
Server: WildFly/8
Content-Length: 0
Date: Thu, 23 Nov 2017 16:11:45 GMT
```

WP5-TC30 getUserDevice	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the getUserDevice method works properly and if it fails when the userId hasn't associated device yet
Description	Call the method with correct parameters first and then with parameter which hasn't associated information yet in the system stored and look if the answer is the expected (200 when correct one and 404 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3" }</pre>	http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/WalletManager/userDevice	200 OK	200 OK {"deviceId": "dgKLvUUCkZI:APA91bFSAuFYtxhZGHL8RModBADfkOfc6jG_zf7AQdL0x_DN8WwdXJrasC_07YyhwpYSEDptAr5BDLpDFtg7MW-S98yf-b-bEmJEIwrTXZNdO8Y3ZDI7CKwif8DR8Kf0S3p1URKvecVY"}	Success

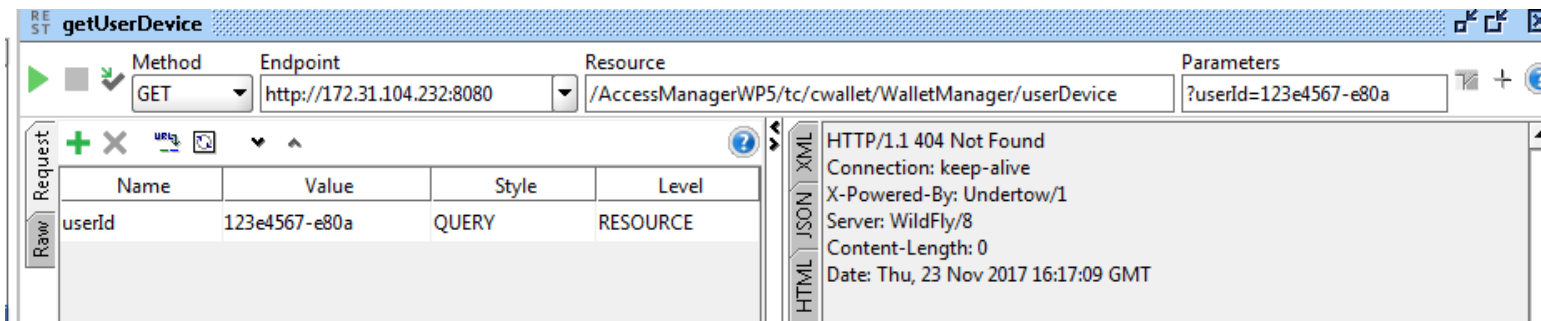
B)	QueryParameters: <pre>{ "userId": "123e4567-e80a" }</pre>	http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/WalletManager/userDevice	404 Not Found this user in the system or he/she has not a associated device	404 Not Found	Success
----	--	---	---	---------------	---------

A) GetUserDevice-Success



The screenshot shows a REST client interface for the endpoint `http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/WalletManager/userDevice` with the parameter `?userId=c6341912-085e-4fb8-af4c-5144e31651a3`. The request is a GET method. The response is an HTTP 200 OK with headers: `Connection: keep-alive`, `X-Powered-By: Undertow/1`, `Server: WildFly/8`, `Transfer-Encoding: chunked`, `Content-Type: application/json`, and `Date: Wed, 22 Nov 2017 08:12:06 GMT`. The response body is a JSON object: `{"deviceId": "SamsungS6"}`.

B) getUserDevice-Not Found because this userId hasn't any device associated



The screenshot shows a REST client interface for the endpoint `http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/WalletManager/userDevice?userId=123e4567-e80a`. The method is GET. The response is an HTTP 404 Not Found, with headers: Connection: keep-alive, X-Powered-By: Undertow/1, Server: WildFly/8, Content-Length: 0, and Date: Thu, 23 Nov 2017 16:17:09 GMT.

Name	Value	Style	Level
userid	123e4567-e80a	QUERY	RESOURCE

2.2.4 WP5 Preferences methods

WP5-TC31 setPreferences	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the setPreferences method works properly and if it fails when the body of the request hasn't match with the expected JSON
Description	Call the method with correct parameters first and then with parameters which don't match with the expected ones and look if the answer is the expected (200 when correct one and 400 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3" }</pre> Body: <pre>{ "Preferences": {</pre>	http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/preferences/userId	200 OK	200 OK	Success

	<pre> "category": "carrier", "name": "AF", "value": true, "score": 0.8, "type": 1 },{ "category": "carrier", "name": "tmb", "value": true, "score": 0.7, "type": 1 },{ "category": "payment card", "name": "visa", "value": true, "score": 0.4, "type": 1 }] } Header: { "userIdToken": "The preferences token from the login test", "X-SOFIA2-APIKey": "88757cc94a824f9a96298a1760c64b7c" } </pre>				
--	--	--	--	--	--

B)	<p>QueryParameters:</p> <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3" }</pre> <p>Body:</p> <pre>{ "Preference": [{ "category": "carrier", "name": "AF", "value": true, "score": 0.8, "type": 1 }] }</pre> <p>Header:</p> <pre>{ "userIdToken": "The preferences token from the login test", "X-SOFIA2-APIKey": "88757cc94a824f9a96298a1760c64b7c" }</pre>	<p>http://172.31.104.232:8080 /AccessManagerWP5/tc/cwallet/WalletManager/userDevice</p>	<p>400 request</p>	<p>Bad</p>	<p>400 request</p>	<p>Bad</p>	<p>OK</p>
----	---	---	------------------------	------------	------------------------	------------	-----------



A) setPreferences-Success

The screenshot displays the Swagger UI interface for a REST API. The top section shows the request configuration:

- Method:** POST
- Endpoint:** x://172.31.104.232:8080
- Resource:** /AccessManagerWP5/tc/cwallet/AccessManager/prefe
- Parameters:** ?userId=c6341912-085e-4fb8-af4c-5144c

Below the request configuration, there are tabs for "Raw", "Request", "Response", "JSON", "HTML", and "XML". The "Request" tab is selected, showing the following details:

- Name:** Value
- Style:** Level
- Header:** Required (checkbox) Sets if parameter is required
- Media Type:** application/json
- Post QueryString:** (checkbox)

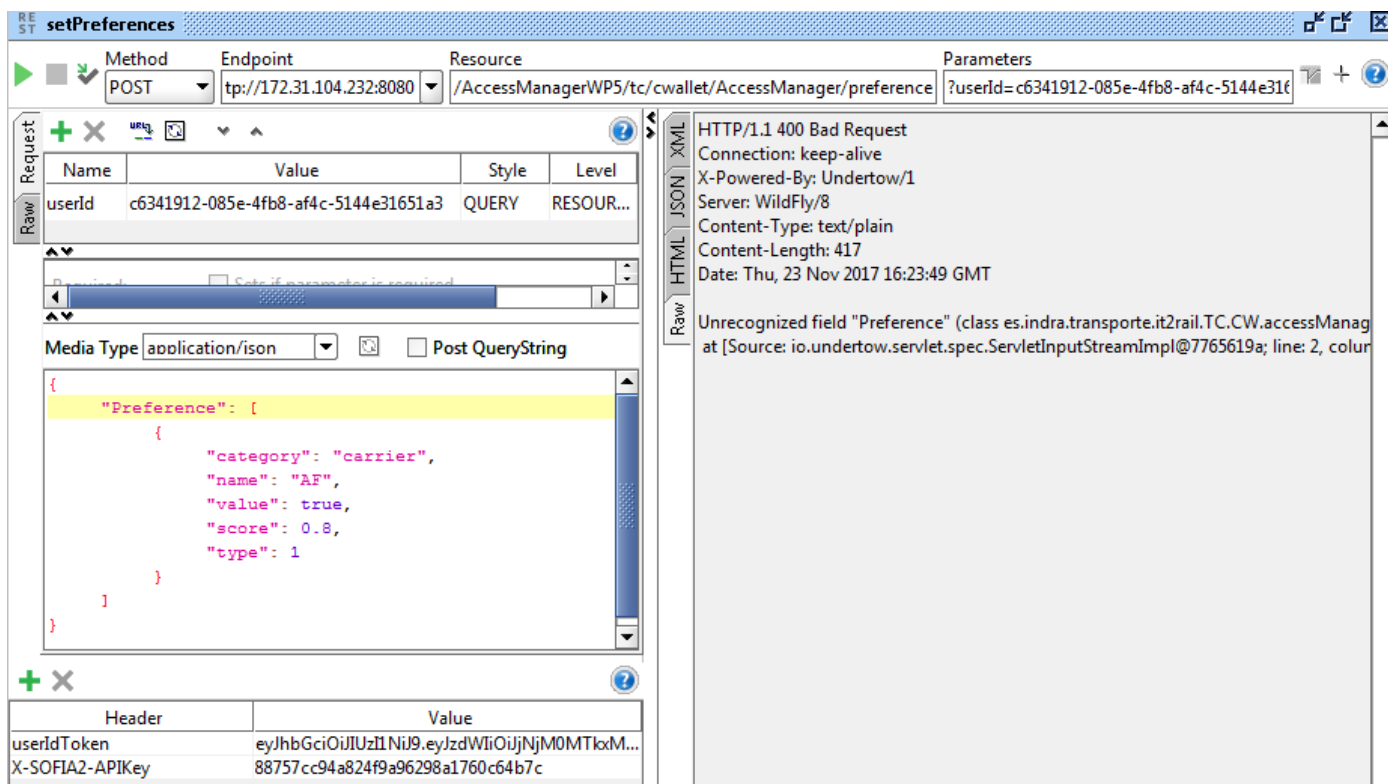
The main area displays the JSON body of the request:

```
{
  "Preferences": [
    {
      "category": "carrier",
      "name": "AF",
      "value": true,
      "score": 0.8,
      "type": 1
    },
    {
      "category": "carrier",
      "name": "tmb",
      "value": true,
      "score": 0.7,
      "type": 1
    },
    {
      "category": "payment card",
      "name": "visa",
      "value": true,
      "score": 0.4,
      "type": 1
    }
  ]
}
```

At the bottom, there is a table for headers:

Header	Value
userIdToken	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWlrOjNj...
X-SOFIA2-APIKey	88757cc94a824f9a96298a1760c64b7c

B) setPreferences-Bad request because the JSON is invalid



setPreferences

Method: POST
Endpoint: tp://172.31.104.232:8080
Resource: /AccessManagerWP5/tc/cwallet/AccessManager/preference
Parameters: ?userId=c6341912-085e-4fb8-af4c-5144e31651a3

Name	Value	Style	Level
userId	c6341912-085e-4fb8-af4c-5144e31651a3	QUERY	RESOUR...

Media Type: application/json

```
{
  "Preference": [
    {
      "category": "carrier",
      "name": "AF",
      "value": true,
      "score": 0.8,
      "type": 1
    }
  ]
}
```

Header

Header	Value
userIdToken	eyJhbGciOiJIUzI1Ni9.eyJzdWIiOiJNjM0MTkxM...
X-SOFIA2-APIKey	88757cc94a824f9a96298a1760c64b7c

Response: HTTP/1.1 400 Bad Request
Connection: keep-alive
X-Powered-By: Undertow/1
Server: WildFly/8
Content-Type: text/plain
Content-Length: 417
Date: Thu, 23 Nov 2017 16:23:49 GMT

Unrecognized field "Preference" (class es.indra.transporte.it2rail.TC.CW.accessManag...
at [Source: io.undertow.servlet.spec.ServletInputStreamImpl@7765619a; line: 2, column: 1]

WP5-TC32 setPreferences AmadeusSynchronization	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the updated preferences by the setPreferences method are synchronized with Amadeus Server.
Description	Call the method with correct parameters in order to check the profile in the Amadeus system and then in order to send the preferences in the correct format.
Status	Not valid anymore for the final release for avoiding duplicities
% passed	

WP5-TC33 getPreferences	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the getPreferences method works properly
Description	Call the method with correct parameters and look if the answer is the expected (200)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3" }</pre> Header: <pre>{ "userIdToken": "The preferences token from the login test" }</pre>	http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/preferences/userId	200 OK	200 OK	Success

A) getPreferences-Success

ST getPreferences

Method: GET Endpoint: http://172.31.104.232:8443 Resource: /AccessManagerWP5/tc/cwallet/AccessManager/preferences Parameters: ?userId=c6341912-085e-4fb8-af4c-5144e31651a3

Name	Value	Style	Level
userId	c6341912-085e-4fb8-af4c-5144e31651a3	QUERY	RESOURCE

Required: ☐ Sets if parameter is required

Type:

Options:

Header

Header	Value
userIdToken	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXZWQWtiOiJNjMOM...

```

1 {
2   "userName": "userTest00",
3   "Preferences": [
4     {
5       "name": "AF",
6       "value": "true",
7       "type": 1,
8       "score": 0.8,
9       "category": "carrier"
10    },
11    {
12      "name": "tmb",
13      "value": "true",
14      "type": 1,
15      "score": 0.7,
16      "category": "carrier"
17    },
18    {
19      "name": "visa",
20      "value": "true",
21      "type": 1,
22      "score": 0.4,
23      "category": "payment card"
24    }
25  ]
26 }
```


2.2.5 WP5 Travel methods

WP5-TC34 getOffers	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the getOffers method works properly and if it fails when the user hasn't any offers associated
Description	Call the method with correct parameters first and then with parameter which hasn't any offers associated and look if the answer is the expected (200 when correct one and 204 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: { "userId": "c6341912-085e-4fb8-af4c-5144e31651a3" } Header: { "userIdToken": "The booking token from the login test" }	http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/Booking/getOffers	200 OK	200 OK	Success



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B)	<p>QueryParameters:</p> <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3" }</pre> <p>Header:</p> <pre>{ "userIdToken": "The booking token from the login test" }</pre>	<p>http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/Booking/getOffers</p>	<p>204 No Content Because this user has not any offer</p>	<p>204 No Content</p>	<p>Success</p>
----	--	--	---	-----------------------	-----------------------

A) getOffers-Success

getOffers

Method: GET Endpoint: http://172.31.104.232:8080 Resource: /AccessManagerWP5/tc/cwallet/AccessManager/Book Parameters: ?userId=c6341912-085e-4fb8-af4c-5144e31651a3

Name	Value	Style	Level
userId	c6341912-085e-4fb8-af4c-5144e31651a3	QUERY	RESO...

Required: ☐ Sets if parameter is required

Type:

Options:

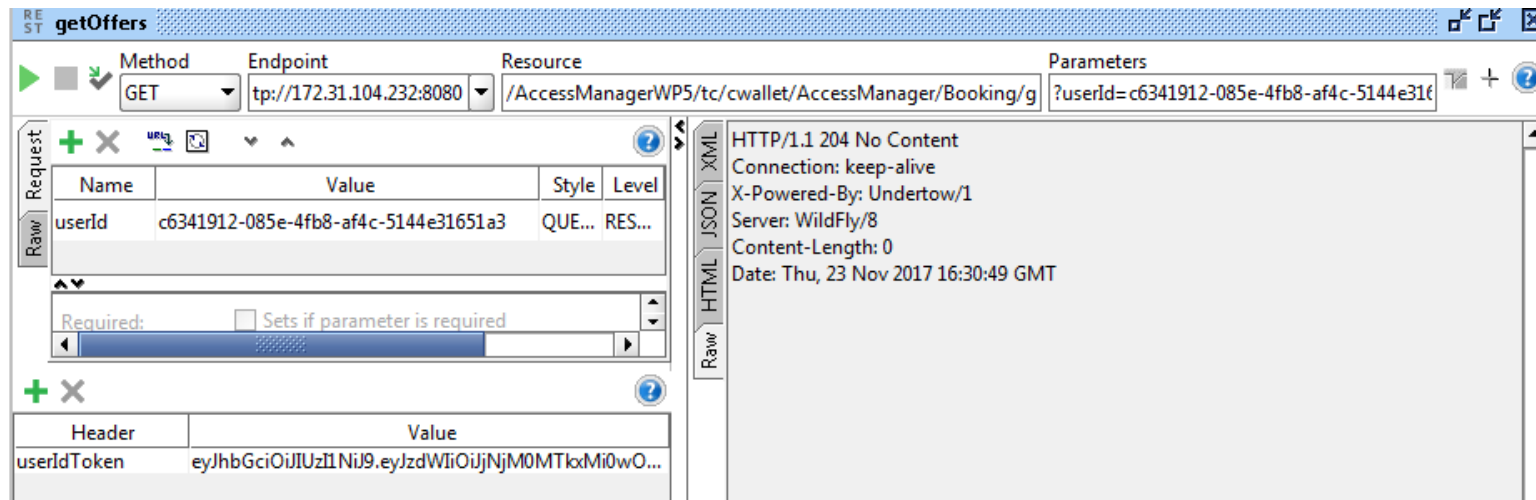
```

1 [
2   {
3     "offerId": "SNCF10",
4     "arrivalDate": "2017-11-22",
5     "arrivalTime": "12:38:00",
6     "confirmedBookingId": null,
7     "departure": "LYON PART DIEU",
8     "departureDate": "2017-11-22",
9     "departureTime": "07:06:00",
10    "destination": "BARCELONA SANTIS",
11    "numOfferItems": 1,
12    "status": "Issued",
13    "timestamp": "2017-11-20 10:17:29",
14    "userId": "c6341912-085e-4fb8-af4c-5144e31651a3",
15    "price": 306
16  },
17  {
18    "offerId": "SNCF11",
19    "arrivalDate": "2017-11-22",
20    "arrivalTime": "12:38:00",
21    "confirmedBookingId": null,
22    "departure": "LYON PART DIEU",
23    "departureDate": "2017-11-22",
24    "departureTime": "07:06:00",
25    "destination": "BARCELONA SANTIS",
26    "numOfferItems": 1,
27    "status": "Booked",
28    "timestamp": "2017-11-20 10:19:11",
29    "userId": "c6341912-085e-4fb8-af4c-5144e31651a3",
30    "price": 0
31  }
32 ]

```

Header	Value
userIdTok...	eyJhbGciOiJIUzI1Ni9yZdWlOiJNjM0MTkxMi0wODVLT...

B) getOffers-No content because this user hasn't any offer associated



getOffers

Method: GET
Endpoint: tp://172.31.104.232:8080
Resource: /AccessManagerWP5/tc/cwallet/AccessManager/Booking/g
Parameters: ?userId=c6341912-085e-4fb8-af4c-5144e31651a3

Request

Name	Value	Style	Level
userId	c6341912-085e-4fb8-af4c-5144e31651a3	QUE...	RES...

Required: ☐ Sets if parameter is required


Header

Header	Value
userIdToken	eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJNjM0MTkxMi0wO...

Response

HTTP/1.1 204 No Content
Connection: keep-alive
X-Powered-By: Undertow/1
Server: WildFly/8
Content-Length: 0
Date: Thu, 23 Nov 2017 16:30:49 GMT


WP5-TC35 setBookingOffer	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the setBookingOffer method works properly and if it fails when the request body doesn't match with the expected one
Description	Call the method with correct parameters first and then with parameter which doesn't match with the expected JSON and look if the answer is the expected (200 when correct one and 400 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	Body:  IT2Rail_Booking50.json Header: <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3", "userIdToken": "The booking token from the login test" }</pre>	http://172.31.104.232:8080/AccessManager WP5/tc/cwallet/AccessManager/Booking/setB ookingOffer	200 OK	200 OK	Success

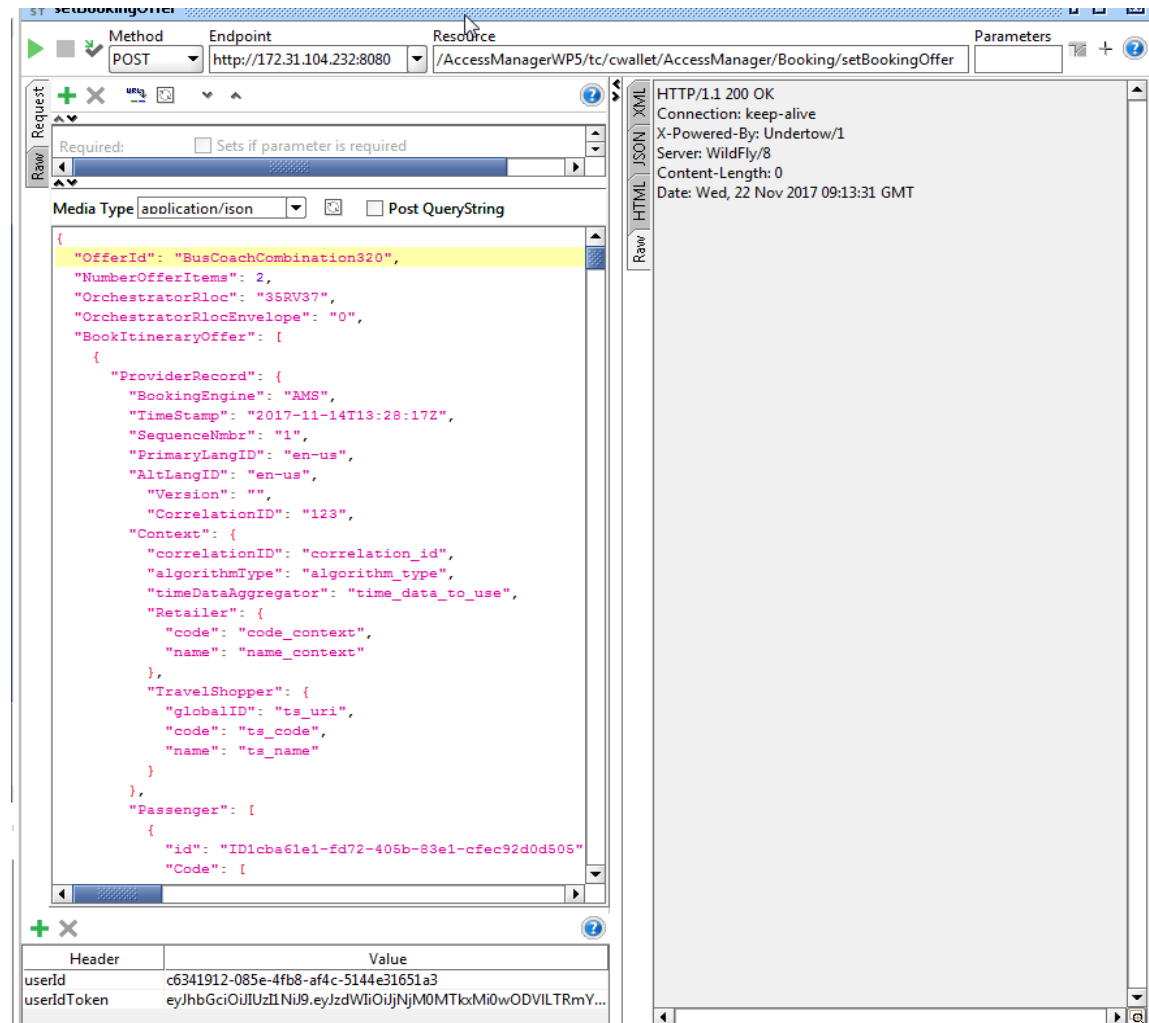


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B)	<p>Body:</p> <p> IT2Rail_Booking50fail.json</p> <p>Header:</p> <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3", "userIdToken": "The booking token from the login test" }</pre>	<p>http://172.31.104.232:8080/AccessManager WP5/tc/cwallet/AccessManager/Booking/setB ookingOffer</p>	<p>400 Bad Request</p>	<p>400 Bad Request</p>	<p>Succ ess</p>
----	---	---	---------------------------------	---------------------------------	----------------------------

A) setBookingOffer-Success



Method: POST
Endpoint: http://172.31.104.232:8080
Resource: /AccessManagerWP5/tc/cwallet/AccessManager/Booking/setBookingOffer

Media Type: application/json

```
{
  "OfferId": "BusCoachCombination320",
  "NumberOfferItems": 2,
  "OrchestratorRloc": "35RV37",
  "OrchestratorRlocEnvelope": "0",
  "BookItineraryOffer": [
    {
      "ProviderRecord": {
        "BookingEngine": "AMS",
        "TimeStamp": "2017-11-14T13:28:17Z",
        "SequenceNbr": "1",
        "PrimaryLangID": "en-us",
        "AltLangID": "en-us",
        "Version": "",
        "CorrelationID": "123",
        "Context": {
          "correlationID": "correlation_id",
          "algorithmType": "algorithm_type",
          "timeDataAggregator": "time_data_to_use",
          "Retailer": {
            "code": "code_context",
            "name": "name_context"
          },
          "TravelShopper": {
            "globalID": "ts_uri",
            "code": "ts_code",
            "name": "ts_name"
          }
        },
        "Passenger": [
          {
            "id": "ID1cba61e1-fd72-405b-83e1-cfec92d0d505",
            "Code": [

```

Header	Value
userId	c6341912-085e-4fb8-af4c-5144e31651a3
userIdToken	eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJpM0M0MTktMi0wODVILTRmY...

HTTP/1.1 200 OK
Connection: keep-alive
X-Powered-By: Undertow/1
Server: WildFly/8
Content-Length: 0
Date: Wed, 22 Nov 2017 09:13:31 GMT



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B) setBookingOffer-Bad Request because de JSON is invalid because OrchestratorRloc isn't a string

REST Client interface showing a failed POST request to the endpoint `http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/Booking/setBookingOffer`.

Request Details:

- Method: POST
- Endpoint: `http://172.31.104.232:8080`
- Resource: `/AccessManagerWP5/tc/cwallet/AccessManager/Booking/setBookingOffer`
- Media Type: `application/json`
- Post QueryString: ☐

Request Body (JSON):

```
{
  "OfferId": "BusCoachCombination3209",
  "NumberOfferItems": 2,
  "OrchestratorRloc": 1,
  "OrchestratorRlocEnvelope": "0",
  "BookItineraryOffer": [
    {
      "ProviderRecord": {
        "BookingEngine": "AMS",
        "TimeStamp": "2017-11-14T13:28:17Z",
        "SequenceNbr": "1",
        "PrimaryLangID": "en-us",
        "AltLangID": "en-us",
        "Version": "",
        "CorrelationID": "123",
        "Context": {
          "correlation_id": "correlation_id",
          "algorithm_type": "algorithm_type",
          "timeDataAggregator": "time data to use"
        }
      }
    }
  ]
}
```

Headers:

Header	Value
userId	c6341912-085e-4fb8-af4c-5144e31651a3
userIdToken	eyJhbGciOiJIUzI1Ni9yZdWlOiJNjM0M...

Response:

HTTP/1.1 400 Bad Request
 Connection: keep-alive
 X-Powered-By: Undertow/1
 Server: WildFly/8
 Content-Length: 0
 Date: Thu, 23 Nov 2017 16:34:25 GMT

WP5-TC36 setBookingOffer	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the CW system works properly (responds correct and stores the data in order to be retrieved) when it is called by WP3 orchestrator with a structure which match with the expected one
Description	The orchestrator calls to the service and the tester checks the logs of the call and verifies that the information is in the data base and the getBookingOffer service is able to retrieve this information when it is called
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	1º Called to setBookingOffer service by WP3 system (log capture) 2º Insertion into IT2Rail data base (data base capture) 3º Called to getBookingOffer service using SOAPUI software in order to retrieve the inserted data (data file json, data file capture and getBookingOffer capture)	http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/Booking/setBookingOffer http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/Booking/getBookingOffer	200 OK	200 OK	Success



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	 data_file.json				
--	---	--	--	--	--



A) Log_Capture

```
2018-05-28 07:45:11,777[es.indra.transporte.it2rail.travel.ws.rest.BookingRestService]::setBookingOffer: --- START ----
2018-05-28 07:45:11,778[es.indra.transporte.it2rail.travel.ws.rest.BookingRestService]::offerId from the request: --- IO_851_1 ----
2018-05-28 07:45:11,779[es.indra.transporte.it2rail.travel.util.IdManagerRESTServiceClient]Url: http://127.0.0.1:8080/idmanager/authorize/SetBookingOffer
INPUT :
[ "SetBookingOffer", [ "Bearer eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiIi4ODczMDclYy00YWl0LTQzNGQtcGVbnMiOiIiZ2V0cHJlZmV5ZW5jZXMtLCJnZXRvZmZlcnMiLCJnZX"
OUTPUT :
{
  "status" : 200,
  "metadata" : { },
  "allowedMethods" : [ ],
  "statusInfo" : "OK",
  "stringHeaders" : { },
  "links" : [ ],
  "cookies" : { },
  "closed" : false,
  "length" : -1,
  "headers" : { }
}
2018-05-28 07:45:11,821[com.it2rail.travelcompanion.identity.app.resources.AuthorizeResource]|OK|12||
2018-05-28 07:45:11,941[es.indra.transporte.it2rail.travel.business.BookingEJB]::processBooking: START----
2018-05-28 07:45:11,959[es.indra.transporte.it2rail.travel.business.BookingEJB]Create a new offer with IO_851_1
2018-05-28 07:45:12,030[es.indra.transporte.it2rail.travel.business.BookingEJB]processBooking: DepDate: 2018-06-19:1400 Time:2018-06-19 00:00:00.0 ArrDate: 2018-06-19:1500 Ti
2018-05-28 07:45:12,059[es.indra.transporte.it2rail.travel.business.BookingEJB]----processBooking: -----END-----
2018-05-28 07:45:12,063[es.indra.transporte.it2rail.travel.ws.rest.BookingRestService]---END WITH STATUS: OK----

2018-05-28 07:45:22,954[es.indra.transporte.it2rail.travel.ws.rest.BookingRestService]::setBookingOffer: --- START ----
2018-05-28 07:45:22,954[es.indra.transporte.it2rail.travel.ws.rest.BookingRestService]::offerId from the request: --- IO_851_1 ----
2018-05-28 07:45:22,954[es.indra.transporte.it2rail.travel.util.IdManagerRESTServiceClient]Url: http://127.0.0.1:8080/idmanager/authorize/SetBookingOffer
INPUT :
[ "SetBookingOffer", [ "Bearer eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiIi4ODczMDclYy00YWl0LTQzNGQtcGVbnMiOiIiZ2V0cHJlZmV5ZW5jZXMtLCJnZXRvZmZlcnMiLCJnZX"
OUTPUT :
{
  "status" : 200,
  "metadata" : { },
  "allowedMethods" : [ ],
  "statusInfo" : "OK",
  "stringHeaders" : { },
  "links" : [ ],
  "cookies" : { },
  "closed" : false,
  "length" : -1,
  "headers" : { }
}
2018-05-28 07:45:22,959[com.it2rail.travelcompanion.identity.app.resources.AuthorizeResource]|OK|2||
2018-05-28 07:45:22,998 INFO [es.indra.transporte.it2rail.travel.business.BookingEJB]::processBooking: START----
2018-05-28 07:45:23,010 INFO [es.indra.transporte.it2rail.travel.business.BookingEJB]Found offer: ID:IO_851_1 Time:2018-05-28 07:45:12.029
2018-05-28 07:45:23,036 INFO [es.indra.transporte.it2rail.travel.business.BookingEJB]processBooking: DepDate: 2018-06-19:1400 Time:2018-06-19 00:00:00.0 ArrDate: 2018-06-19:
2018-05-28 07:45:23,047 INFO [es.indra.transporte.it2rail.travel.business.BookingEJB]----processBooking: -----END-----
2018-05-28 07:45:23,051 INFO [es.indra.transporte.it2rail.travel.ws.rest.BookingRestService]---END WITH STATUS: OK----
```



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B) Data file capture

serverDBIT2Rail

- alert_wallet
- id_wallet 136,0 KiB
- information_schema
- offersgenerator
- paymenttypes
- pg_catalog
- pg_temp_1
- pg_toast
- pg_toast_temp_1
- pref_wallet
- public
- system
- travel_wallet 66,1 MiB
 - BOOKING 328,0 KiB
 - BOOKING_ELEMENT 64,0 KiB
 - BOOK_ELEMENT_TRAV... 8,0 KiB
 - CONTEXT 24,0 KiB
 - ENTITLEMENT 16,0 KiB
 - LOCATION 59,4 MiB
 - OFFER 2,2 MiB
 - OFFER_ITEM 216,0 KiB

```
1 SELECT * FROM travel_wallet."OFFER" WHERE "OFFER_ID" = 'IO_851_1';
```

- Columnas en OFFER
- Funciones SQL
- Palabras clave SQL
- Fragmentos
- Historial de consultas
- Perfil de consultas
- Parámetros Enlazados

"OFFER" (14x1)

OFFER_ID	USER_ID	...	TIMESTAMP	DEPAR...	DESTI...	DEPARTUR...	ARRIVAL_TIME	DEPARTURE...	ARRIVAL_D...	STATUS	JSON_MESSAGE
IO_851_1	8873075c-4ab4-...	1	2018-05-28 07:45:23.035	MXP	LYS	2018-06-19...	2018-06-19 ...	2018-06-19...	2018-06-19:...	Issued	{"OfferId":"IO_851_1","t"

A) Data File Capture

```
{
  "OfferId": "IO_851_1",
  "NumberOfferItems": 1,
  "OrchestratorRloc": "LO28TF",
  "OrchestratorRlocEnvelope": "2",
  "BookItineraryOffer": [{"ProviderRecord": {
    "BookingEngine": "1A",
    "Version": "1",
    "Booking": {
      "id": "BK_1",
      "bookingReference": "BK_1",
      "BookingElement": [
        {
          "id": "BE_1",
          "bookingElementStatus": "HK",
          "ItineraryOfferItem": [
            {
              "TravelEpisodeEndPoint": [
                {
                  "id": "TS_1",
                  "Departure": {"endPointRefId": "MXP"},
                  "Arrival": {"endPointRefId": "LYS"}
                }
              ],
              "TravelEpisode": [
                {
                  "id": "TE_1",
                  "Departure": {"endPointRefId": "MXP"},
                  "Arrival": {"endPointRefId": "LYS"},
                  "TransportationService": {"Service": {
                    "code": "4503",
                    "Departure": {
                      "endPointRefId": "MXP",
                      "dateTime": "2018-06-19:1400",
                      "timeZoneOffset": "GMT"
                    },
                    "Arrival": {
                      "endPointRefId": "LYS",
                      "dateTime": "2018-06-19:1500",
                      "timeZoneOffset": "GMT"
                    },
                    "ServiceProvider": {"code": "A5"},
                    "Reference": []
                  }
                }
              ]
            }
          ]
        }
      ]
    }
  }],
  "ConfirmedBooking": {
    "Passenger": [
      {
        "id": "NM-1-PNR",
        "FunctionalId": [],
        "Code": [],
        "PersonalInfo": {"Name": {
          "LastName": "AIUF",
          "FirstName": "AJUL"
        }},
        "Preference": []
      }
    ],
    "StopPlace": [
      {
        "id": "NM-1-PNR",
        "FunctionalId": [],
        "Code": [],
        "PersonalInfo": {"Name": {
          "LastName": "AIUF",
          "FirstName": "AJUL"
        }},
        "Preference": []
      }
    ]
  }
}]
}
```


A) getBookingOffer Capture

getBookingOffer

Method: GET Endpoint: http://173.27.0.5:8080 Resource: /AccessManagerWP5/tc/cwallet/AccessManager/Booking/getBookingOffer Parameters: ?offerId=IO_851_1

Name	Value	Style	Level
offerId	IO_851_1	QUERY	RESOURCE

Required: ☐ Sets if parameter is required
Type:
Options:

Header	Value
userId	8873075c-4ab4-434d-9efe-7926d58...
userIdToken	eyJhbGciOiJIUzI1NiIsInR5cGE6IjoiOi40O...

response time: 449ms (2029 bytes)

```

1 {
2   "OfferId": "IO_851_1",
3   "NumberOfferItems": 1,
4   "OrchestratorRloc": "LO28TF",
5   "OrchestratorRlocEnvelope": "2",
6   "BookItineraryOffer": {
7     "ProviderRecord": {
8       "BookingEngine": "1A",
9       "Version": "1",
10      "Booking": {
11        "ConfirmedBooking": {
12          "id": "CB_1",
13          "bookingReference": "BK_1",
14          "BookingElement": [
15            {
16              "Entitlement": {
17                "contractReference": "S139183279",
18                "Reference": [
19                  {
20                    "id": "NM-1-PNR",
21                    "FunctionalId": [
22                      {
23                        "Code": [
24                          {
25                            "PersonalInfo": {
26                              "Name": {
27                                "LastName": "AIUF",
28                                "FirstName": "AJUL"
29                              }
30                            },
31                            "Preference": [
32                              {
33                                "id": "TS_1",
34                                "Departure": {
35                                  "endPointRefId": "MXF",
36                                  "endPointRefId": "MXF",
37                                  "endPointRefId": "MXF"
38                                }
39                              }
40                            ]
41                          }
42                        ]
43                      }
44                    ]
45                  }
46                ]
47              }
48            }
49          ]
50        }
51      }
52    }
53  }
54  "StopPlace": [
55    {
56      "id": "MXF",
57      "TravelEpisodeEndPoint": [
58        {
59          "id": "TS_1",
60          "Departure": {
61            "endPointRefId": "MXF",
62            "endPointRefId": "MXF",
63            "endPointRefId": "MXF"
64          }
65        }
66      ]
67    }
68  ]
69  "TravelSolution": [
70    {
71      "id": "TS_1",
72      "Departure": {
73        "endPointRefId": "MXF",
74        "endPointRefId": "MXF",
75        "endPointRefId": "MXF"
76      }
77    }
78  ]
79  }
80  }
81  }
82  }
83  }
84  }
85  }
86  }
87  }
88  }
89  }
90  }
91  }
92  }
93  }
94  }
95  }
96  }
97  }
98  }
99  }
100 }
  
```

Headers (7) Attachments (0) SSL Info Representations (5) Schema (conflicts) JMS (0)

Mon May 28 09:47:57 CEST 2018:DEBUG:<< "07ed[\r]\n"

Mon May 28 09:47:57 CEST 2018:DEBUG:<< [{"OfferId":"IO_851_1","NumberOfferItems":1,"OrchestratorRloc":"LO28TF","OrchestratorRlocEnvelope":"2","BookItineraryOffer":{"Provide

Mon May 28 09:47:57 CEST 2018:DEBUG:<< "[\r]\n]"

Mon May 28 09:47:57 CEST 2018:DEBUG:<< "[\r]\n]"

Mon May 28 09:47:57 CEST 2018:DEBUG:<< "0[\r]\n]"

Mon May 28 09:47:57 CEST 2018:DEBUG:<< "0[\r]\n]"

WP5-TC37 getBookingOffer	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the getBookingOffer method works properly and if it fails when the user hasn't any offer with this offerId associated
Description	Call the method with correct parameters first and then with parameter which hasn't any offers associated with this offerId and look if the answer is the expected (200 when correct one and 204 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: <pre>{ "offerId": "BusCoachCombination320" }</pre> Header: <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3", "userIdToken": "The booking token from the login test" }</pre>	http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/Booking/getBookingOffer	200 OK	200 OK	Success



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B)	<p>QueryParameters:</p> <pre>{ "offerId": "SNCF22" }</pre> <p>Header:</p> <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3", "userIdToken": "The booking token from the login test" }</pre>	<p>http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/Booking/getBookingOffer</p>	<p>204 No Content Because this user has not any offer with this offerId</p>	<p>204 No Content</p>	<p>Success</p>
----	---	--	---	-----------------------	-----------------------

A) getBookingOffer-Success

getBookingOffer

Method: GET Endpoint: p://172.31.104.232:8080 Resource: /AccessManagerWP5/tc/cwallet/AccessManager/Booking/gett Parameters: ?offerId=BusCoachCombination320

Name	Value	Style	Level
offerId	BusCoachCombination320	QUERY	RESOURCE

Required: ☐ Sets if parameter is required

Header	Value
userId	c6341912-085e-4fb8-af4c-5144e31651a3
userIdToken	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXLTkxM0M0MTkxM0wOD...

```

1 {
2   "OfferId": "BusCoachCombination320",
3   "NumberOfferItems": 2,
4   "OrchestratorRloc": "35RV37",
5   "OrchestratorRlocEnvelope": "0",
6   "BookItineraryOffer": {
7     { "ProviderRecord": {
8       "BookingEngine": "AMS",
9       "TimeStamp": "2017-11-14T13:28:17Z",
10      "Version": "",
11      "SequenceNmbr": "1",
12      "PrimaryLangID": "en-us",
13      "AltLangID": "en-us",
14      "CorrelationID": "123",
15      "Context": {
16        "correlationID": "correlation_id",
17        "algorithmType": "algorithm_type",
18        "timeDataAggregator": "time_data_to_use",
19        "Retailer": {
20          "code": "code_context",
21          "name": "name_context"
22        },
23        "TravelShopper": {
24          "globalID": "ts_uri",
25          "code": "ts_code",
26          "name": "ts_name"
27        }
28      },
29      "Booking": {
30        "id": "ID0304b71b-9898-4d03-90a1-6876c076c636",
31        "bookingReference": "ad7ec3fc-d673-4e03-b45c-55b",
32        "createdOrderId": "ad7ec3fc-d673-4e03-b45c-55b",
33        "BookingStatus": { "timeStamp": "2017-11-14T14:00:00Z" },
34        "BookingProvider": {
35          "code": "AMS",
36          "name": "eshopcv.amsbu.cz"
37        },
38        "BookingElement": [
39          {
40            "id": "ID63274fdf-2bdf-42eb-8f95-2071cce3f8",
41            "bookingElementReference": "ad7ec3fc-d673-4e03-b45c-55b",
42            "bookingElementStatus": "INVENTORYLOCK",
43            "passengerRefIds": "ID1cba61e1-fd72-405b-88",
44            "travelEpisodeRefIds": "ID220ddca1-4ef8-491",
45            "ItineraryOfferItem": {
46              "id": "ID3f741018-858a-4f04-8eb7-ea5e576",
              "onlineBooking": "true",
            }
          }
        ]
      }
    }
  }
}

```



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B) getBookingOffer-No Content because this user hasn't any offer associated with this offerId

REST Client interface showing a GET request to the endpoint `http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/Booking/getBookingOffer` with the parameter `?offerId=SNCF22`.

Request Details:

Name	Value	Style	Level
offerId	SNCF22	QUERY	RESOURCE

Headers:

Header	Value
userId	c6341912-085e-4fb8-af4c-5144e31651a3
userIdToken	eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJNjM0MTIxMi0wOD...

Response Details:

```

HTTP/1.1 204 No Content
Connection: keep-alive
X-Powered-By: Undertow/1
Server: WildFly/8
Content-Length: 0
Date: Thu, 23 Nov 2017 16:46:38 GMT
  
```

WP5-TC38 getBookedOffer	
Method Of Test	Demonstration and inspection

WP5-TC38 getBookedOffer	
Type of test	Manual
Objectives	Check that the getBookedOffer method works properly and if it fails when the user hasn't any offer with this offerId associated
Description	Call the method with correct parameters first and then with parameter which hasn't any offers associated with this offerId and look if the answer is the expected (200 when correct one and 204 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: <pre>{ "offerId": "202" }</pre> Header: <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3", "userIdToken": "The booking token from the login test" }</pre>	http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/Booking/getBookedOffer	200 OK	200 OK	Success



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B)	<p>QueryParameters:</p> <pre>{ "offerId": "4965" }</pre> <p>Header:</p> <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3", "userIdToken": "The booking token from the login test" }</pre>	<p>http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/Booking/getBookedOffer</p>	204 Content	No	204 Content	No	Success
----	---	--	----------------	----	----------------	----	---------

A) getBookedOffer-Success

REST Client interface showing a successful GET request to the endpoint `http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/Booking/getBookedOffer` with parameter `?offerId=202`.

Request Details:

Name	Value	Style	Level
offerId	202	QUERY	RESOURCE

Response (JSON):

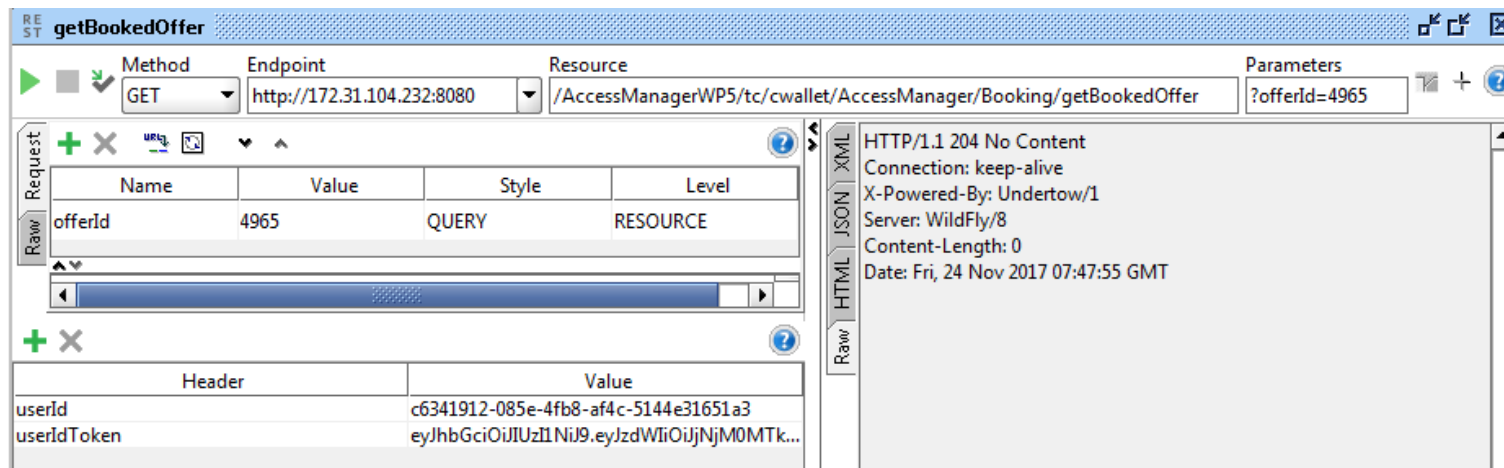
```

1 {
2   "OfferId": "202",
3   "NumberOfferItems": 0,
4   "OrchestratorRloc": "ABCDHG",
5   "OrchestratorRlocEnvelope": "0",
6   "BookItineraryOffer": [{"ProviderRecord": {
7     "userId": "c6341912-085e-4fb8-af4c-5144e31651a3",
8     "BookingEngine": "Amadeus",
9     "EchoToken": "",
10    "TimeStamp": "",
11    "Target": "",
12    "TargetName": "",
13    "Version": "",
14    "TransactionIdentifier": "",
15    "SequenceNmbr": "",
16    "TransactionStatusCode": "",
17    "PrimaryLangID": "",
18    "AltLangID": "",
19    "RetransmissionIndicator": "",
20    "CorrelationID": "",
21    "Passenger": [ {
22      "id": "ID72c9ac45-0e39-4854-9ea7-7f80a3a0605e",
23      "FunctionalId": [],
24      "Code": [
25        { "context": "PAO" },
26        { "context": "PAXCODE" }
27      ],
28      "PersonalInfo": {
29        "Name": {
30          "LastName": "HIGGS",
31          "FirstName": "PETER"
32        },
33        "DateOfBirth": "1980-01-01+01:00"
34      },
35      "Preference": []
  
```

Headers:

Header	Value
userId	c6341912-085e-4fb8-af4c-5144e31651a3
userIdToken	eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJNjM0MTkxM...

B) getBookedOffer-No Content because this user hasn't any offer associated with this offerId



REST Client: getBookedOffer

Method: GET
Endpoint: http://172.31.104.232:8080
Resource: /AccessManagerWP5/tc/cwallet/AccessManager/Booking/getBookedOffer
Parameters: ?offerId=4965

Request

Name	Value	Style	Level
offerId	4965	QUERY	RESOURCE

Headers

Header	Value
userId	c6341912-085e-4fb8-af4c-5144e31651a3
userIdToken	eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJNjM0MTk...

Response

```

HTTP/1.1 204 No Content
Connection: keep-alive
X-Powered-By: Undertow/1
Server: WildFly/8
Content-Length: 0
Date: Fri, 24 Nov 2017 07:47:55 GMT
  
```

2.2.6 WP5 Trip tracking methods

WP5-TC39 sendMessage	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the sendMessage method works properly and if it fails when the request body doesn't match with the expected one
Description	Call the method with correct parameters first and then with parameter which doesn't match with the expected JSON and look if the answer is the expected (200 when correct one and 400 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3" }</pre> Header: <pre>{ "userIdToken": "The tracking token from the login test" }</pre>	http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/messages/userId	200 OK	200 OK	Success

	<pre> } Body: { "bookedOfferId": "12345", "messageTitle": "Travel Episode Start", "messageTypeS": "INFORMATION", "messageShortText": "Travel Episode Start", "messageFullText": "Travel Episode Start", "messageObject": {"travelEpisodeStartTime\":" "\"2017-06-19T13:54:00\"", "\"travelEpisodeOrigin\":" "\"PARIS\""}, "messageAsk4Alt": false } </pre>				
B)	<p>QueryParameters:</p> <pre> { "userId": "c6341912-085e-4fb8-af4c-5144e31651a3" } </pre> <p>Header:</p> <pre> { "userIdToken": "The tracking token from the login test" } </pre>	<p>http://172.31.104.232:8080/AccessManager WP5/tc/cwallet/AccessManager/messages/us erId</p>	<p>400 Bad Request</p>	<p>400 Bad Request</p>	<p>Success</p>



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	<p>Body:</p> <pre>{ "bookedOfferId": "12345", "messageTitle": "Travel Episode Start", "messageType": "INFORMATION", "messageShortText": "Travel Episode Start", "messageFullText": "Travel Episode Start", "messageObject": {"travelEpisodeStartTime": \"2017-06-19T13:54:00\", \"travelEpisodeOrigin\": \"PARIS\"}, "messageAsk4Alt": false }</pre>				
--	--	--	--	--	--

A) sendMessage-Success

sendMessage

Method: POST Endpoint: http://172.31.104.232:8080 Resource: /AccessManagerWP5/tc/cwallet/AccessManager/mes Parameters: ?userId=c6341912-085e-4fb8-af4c-5144e...

Request

Name	Value	Style	Level
userId	c6341912-085e-4fb8-af4c-5144e31651a3	QUERY	RESOU...

Required: ☐ Sets if parameter is required

Media Type: application/json ☐ Post QueryString

```
{
  "bookedOfferId": "12345",
  "messageTitle": "Travel Episode Start",
  "messageTypeS": "INFORMATION",
  "messageShortText": "Travel Episode Start",
  "messageFullText": "Travel Episode Start",
  "messageObject": "{ \"travelEpisodeStartTime\" }",
  "messageAsk4Alt": false
}
```

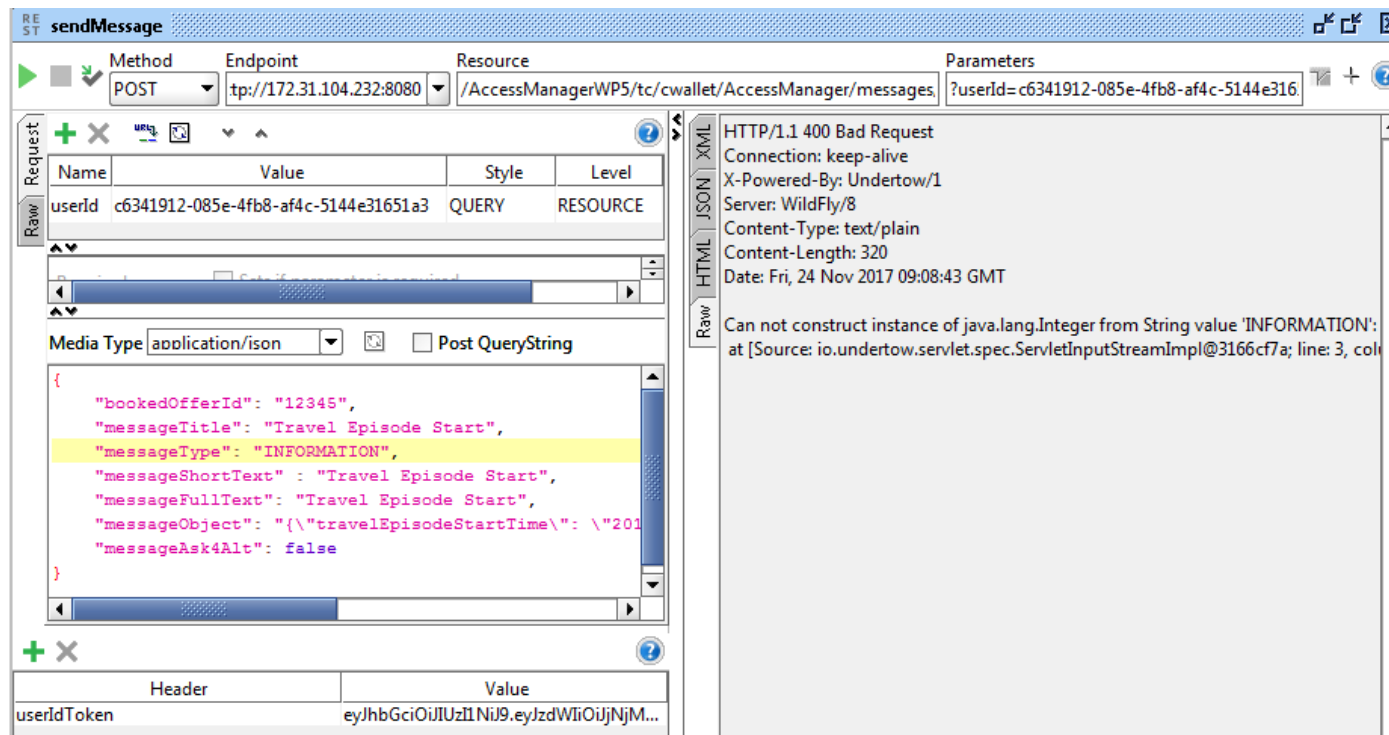
Header

Header	Value
userIdToken	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpzZW50a3VzIiwiaWF0IjoiNjM0MTk0MjwODVIL...

Response

HTTP/1.1 201 Created
 Connection: keep-alive
 X-Powered-By: Undertow/1
 Server: WildFly/8
 Content-Length: 0
 Date: Wed, 22 Nov 2017 11:22:43 GMT

B) sendMessage-Bad Request because this JSON doesn't match with the fields expected



sendMessage

Method: POST
Endpoint: tp://172.31.104.232:8080
Resource: /AccessManagerWP5/tc/cwallet/AccessManager/messages
Parameters: ?userId=c6341912-085e-4fb8-af4c-5144e316

Name	Value	Style	Level
userId	c6341912-085e-4fb8-af4c-5144e31651a3	QUERY	RESOURCE

Media Type: application/json

```
{
  "bookedOfferId": "12345",
  "messageTitle": "Travel Episode Start",
  "messageType": "INFORMATION",
  "messageShortText": "Travel Episode Start",
  "messageFullText": "Travel Episode Start",
  "messageObject": "{\\\"travelEpisodeStartTime\\\": \\\"2017-11-24T09:08:43Z\\\"}",
  "messageAsk4Alt": false
}
```

Header

Header	Value
userIdToken	eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJNjM...

Response: HTTP/1.1 400 Bad Request
Connection: keep-alive
X-Powered-By: Undertow/1
Server: WildFly/8
Content-Type: text/plain
Content-Length: 320
Date: Fri, 24 Nov 2017 09:08:43 GMT

Can not construct instance of java.lang.Integer from String value 'INFORMATION':
at [Source: io.undertow.servlet.spec.ServletInputStreamImpl@3166cf7a; line: 3, col: 18]

WP5-TC40 getMessage	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the getMessage method works properly and if it fails when the user hasn't any messages associated with this messageld
Description	Call the method with correct parameters first and then with parameter which hasn't associated messages with this messageld stored in the system and look if the answer is the expected (200 when correct one and 204 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: <pre>{ "message": "877" }</pre> Header: <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3", "userIdToken": "The tracking token from the login test" }</pre>	http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/messages/messageld	200 OK	200 OK	Success

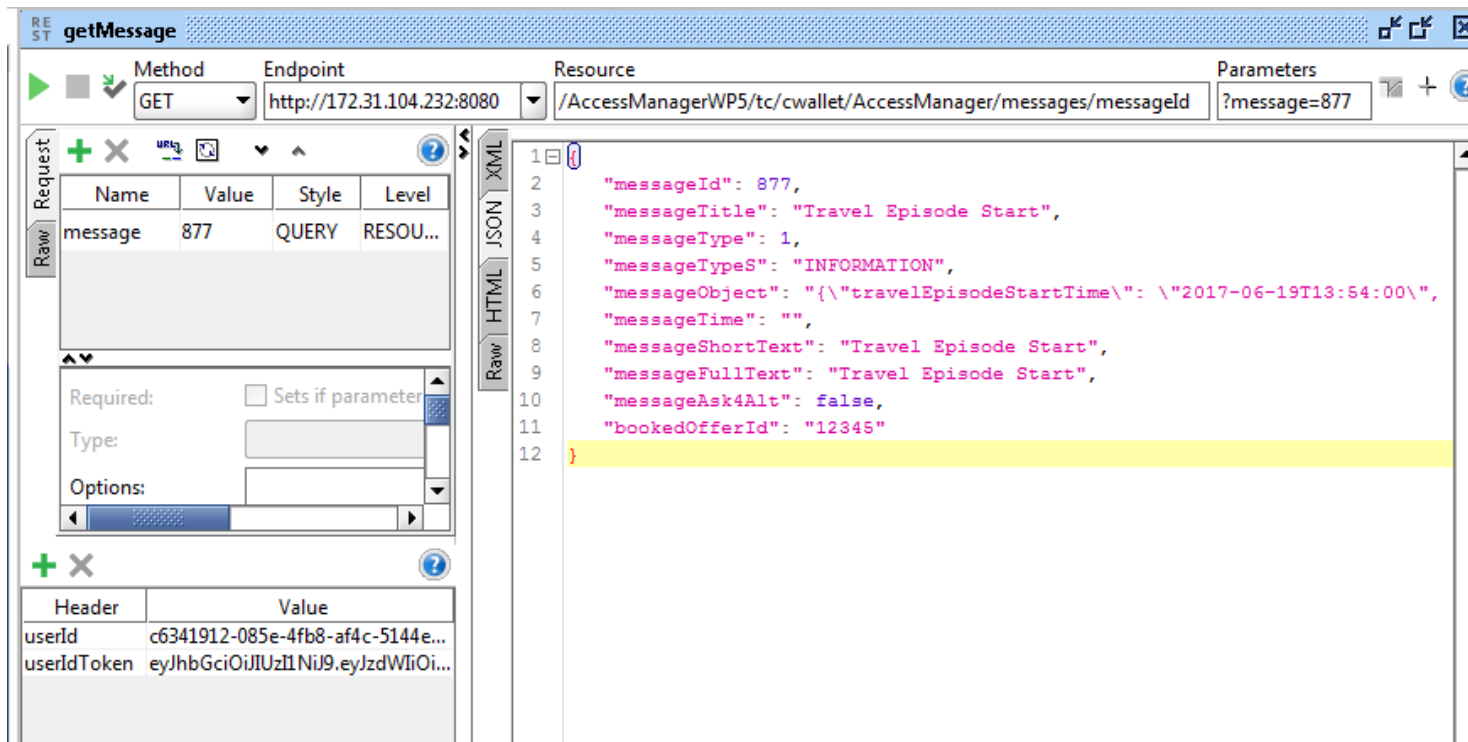


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B)	<p>QueryParameters:</p> <pre>{ "message": "12000" }</pre> <p>Header:</p> <pre>{ "userId": "c6341912-085e-4fb8-af4c-5144e31651a3", "userIdToken": "The tracking token from the login test" }</pre>	<p>http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/messages/messageld</p>	<p>204 No Content Because there is not any message with this messageld linked to this user</p>	<p>204 No Content</p>	<p>Success</p>
----	---	--	--	-----------------------	-----------------------

A) getMessage-Success



The screenshot shows a REST client interface with the following details:

- Method:** GET
- Endpoint:** http://172.31.104.232:8080
- Resource:** /AccessManagerWP5/tc/cwallet/AccessManager/messages/messageId
- Parameters:** ?message=877

The **Request** tab is active, showing a table with the following data:

Name	Value	Style	Level
message	877	QUERY	RESOU...

Below the table, there are fields for **Required:** (unchecked), **Type:** (empty), and **Options:** (empty).

The **Response** tab is also visible, showing a JSON response:

```

1 {
2   "messageId": 877,
3   "messageTitle": "Travel Episode Start",
4   "messageType": 1,
5   "messageTypeS": "INFORMATION",
6   "messageObject": "{\"travelEpisodeStartTime\": \"2017-06-19T13:54:00\",
7   "messageTime": "",
8   "messageShortText": "Travel Episode Start",
9   "messageFullText": "Travel Episode Start",
10  "messageAsk4Alt": false,
11  "bookedOfferId": "12345"
12 }
  
```

B) getMessage-No Content because this user hasn't any message associated with this messageId

REST Client interface showing a GET request to the endpoint `http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/AccessManager/messages/messageId` with the parameter `?message=12000`.

The request is configured with the following details:

Name	Value	Style	Level
message	12000	QUERY	RESOURCE

The request headers are:

Header	Value
userId	c6341912-085e-4fb8-af4c-5144e31651a3
userIdToken	eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJNjM0MT...

The response is an HTTP 1.1 204 No Content, with the following headers:

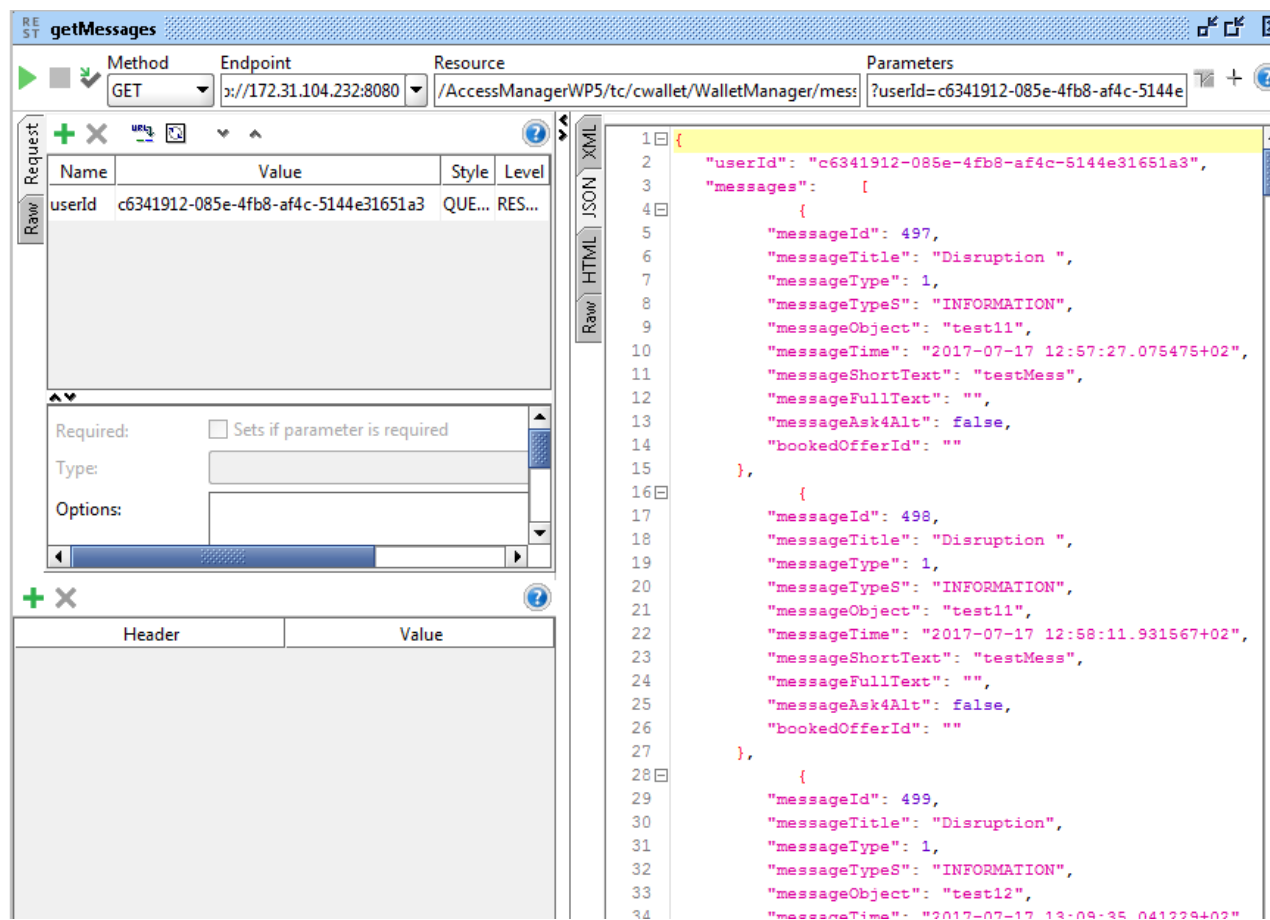
```

HTTP/1.1 204 No Content
Connection: keep-alive
X-Powered-By: Undertow/1
Server: WildFly/8
Content-Length: 0
Date: Fri, 24 Nov 2017 09:18:20 GMT
  
```

WP5 –TC41 getMessages (Wallet)	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the getMessages method of the Wallet works properly and if it fails when the user hasn't any messages associated
Description	Call the method with correct parameters first and then with parameter which hasn't associated messages stored in the system and look if the answer is the expected (200 when correct one and 404 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: { "userId":"c6341912-085e-4fb8-af4c-5144e31651a3" }	http://172.31.104.232:8080/AccessManager WP5/tc/cwallet/WalletManager/messages/us erId	200 OK	200 OK	Success
B)	QueryParameters: { "userId":"c6341912-085e-4fb8-af4c-5144e31651a4" }	http://172.31.104.232:8080/AccessManager WP5/tc/cwallet/WalletManager/messages/us erId	404 Not Found This messageld	404 Not Found	Success

A) getMessages (Wallet)-Success



The screenshot shows a REST client interface for the `getMessages` endpoint. The method is `GET`, the endpoint is `http://172.31.104.232:8080`, and the resource is `/AccessManagerWP5/tc/cwallet/WalletManager/mes:userId=c6341912-085e-4fb8-af4c-5144e31651a3`. The response is displayed in JSON format, showing a successful result with three messages.

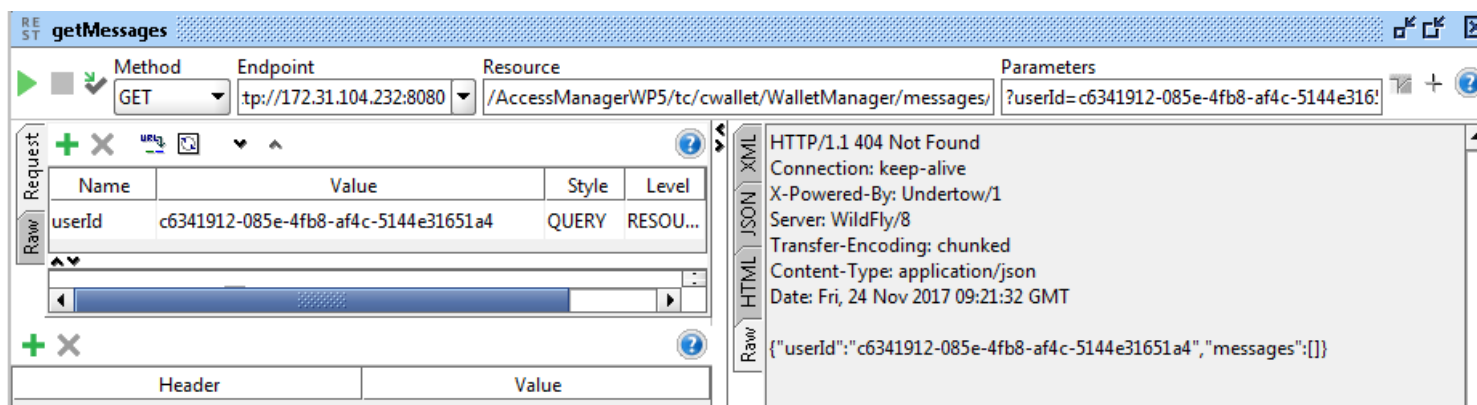
Name	Value	Style	Level
userId	c6341912-085e-4fb8-af4c-5144e31651a3	QUE...	RES...

```

1 {
2   "userId": "c6341912-085e-4fb8-af4c-5144e31651a3",
3   "messages": [
4     {
5       "messageId": 497,
6       "messageTitle": "Disruption ",
7       "messageType": 1,
8       "messageTypeS": "INFORMATION",
9       "messageObject": "test11",
10      "messageTime": "2017-07-17 12:57:27.075475+02",
11      "messageShortText": "testMess",
12      "messageFullText": "",
13      "messageAsk4Alt": false,
14      "bookedOfferId": ""
15    },
16    {
17      "messageId": 498,
18      "messageTitle": "Disruption ",
19      "messageType": 1,
20      "messageTypeS": "INFORMATION",
21      "messageObject": "test11",
22      "messageTime": "2017-07-17 12:58:11.931567+02",
23      "messageShortText": "testMess",
24      "messageFullText": "",
25      "messageAsk4Alt": false,
26      "bookedOfferId": ""
27    },
28    {
29      "messageId": 499,
30      "messageTitle": "Disruption",
31      "messageType": 1,
32      "messageTypeS": "INFORMATION",
33      "messageObject": "test12",
34      "messageTime": "2017-07-17 13:09:35.041229+02"

```

B) getMessages (Wallet)-Not found because this user hasn't any messages



REST client interface showing a GET request to the endpoint `tp://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/WalletManager/messages/?userId=c6341912-085e-4fb8-af4c-5144e3161a4`.

The request parameters are:

Name	Value	Style	Level
userId	c6341912-085e-4fb8-af4c-5144e3161a4	QUERY	RESOU...

The response is a 404 Not Found status with the following headers:

- HTTP/1.1 404 Not Found
- Connection: keep-alive
- X-Powered-By: Undertow/1
- Server: WildFly/8
- Transfer-Encoding: chunked
- Content-Type: application/json
- Date: Fri, 24 Nov 2017 09:21:32 GMT

The response body is a JSON object:

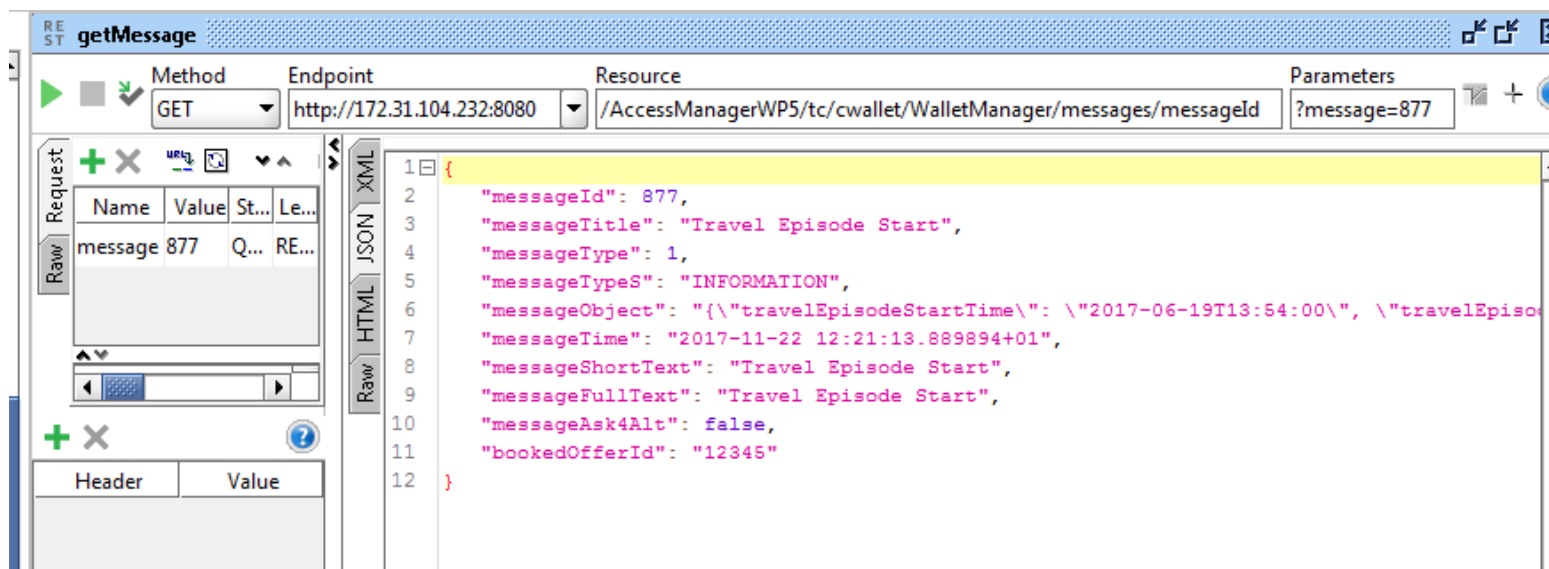
```
{\"userId\": \"c6341912-085e-4fb8-af4c-5144e3161a4\", \"messages\": []}
```

WP5-TC42 getMessage (Wallet)	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the getMessage method of the Wallet works properly and if it fails when doesn't exists any messages with this messageld
Description	Call the method with correct parameters first and then with parameter which doesn't exist stored in the system and look if the answer is the expected (200 when correct one and 404 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: { "message": "877" }	http://172.31.104.232:8080/AccessManager WP5/tc/cwallet/WalletManager/messages/me ssageld	200 OK	200 OK	Success
B)	QueryParameters: { "message": "12000" }	http://172.31.104.232:8080/AccessManager WP5/tc/cwallet/WalletManager/messages/me ssageld	204 No Content Because there is not any message with this	204 No Content	Success

			messageId in the system		
--	--	--	-------------------------	--	--

A) getMessage (Wallet)-Success



The screenshot shows a REST client interface with the following details:

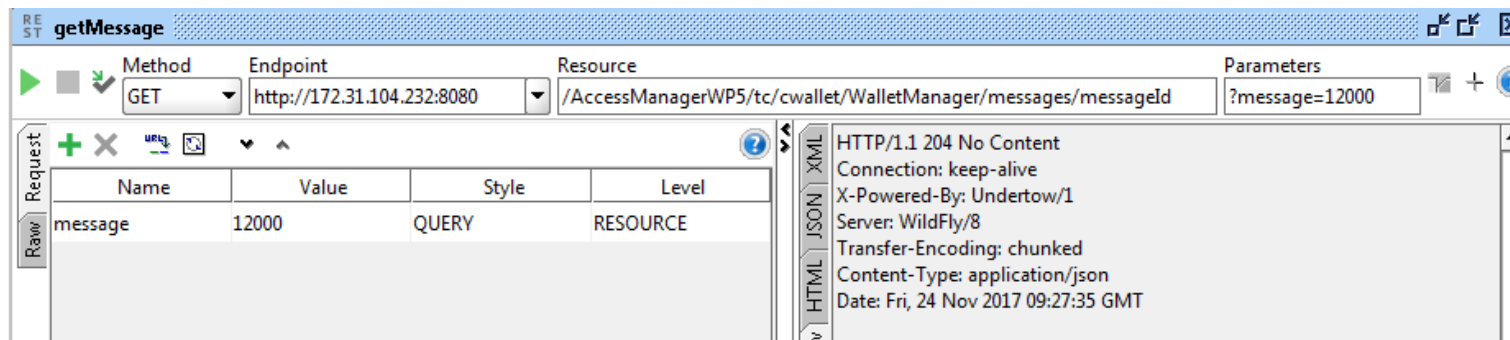
- Method:** GET
- Endpoint:** http://172.31.104.232:8080
- Resource:** /AccessManagerWP5/tc/cwallet/WalletManager/messages/messageId
- Parameters:** ?message=877
- Request:**

Name	Value	St...	Le...
message	877	Q...	RE...
- Response (JSON):**

```

1 {
2   "messageId": 877,
3   "messageTitle": "Travel Episode Start",
4   "messageType": 1,
5   "messageTypeS": "INFORMATION",
6   "messageObject": "{\"travelEpisodeStartTime\": \"2017-06-19T13:54:00\", \"travelEpisod",
7   "messageTime": "2017-11-22 12:21:13.889894+01",
8   "messageShortText": "Travel Episode Start",
9   "messageFullText": "Travel Episode Start",
10  "messageAsk4Alt": false,
11  "bookedOfferId": "12345"
12 }
```

B) getMessage (Wallet)- Not found because this user hasn't any message with this messageId



REST client interface showing a GET request to the endpoint `http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/WalletManager/messages/messageId?message=12000`. The response is HTTP 1.1 204 No Content.

Name	Value	Style	Level
message	12000	QUERY	RESOURCE

Response details:

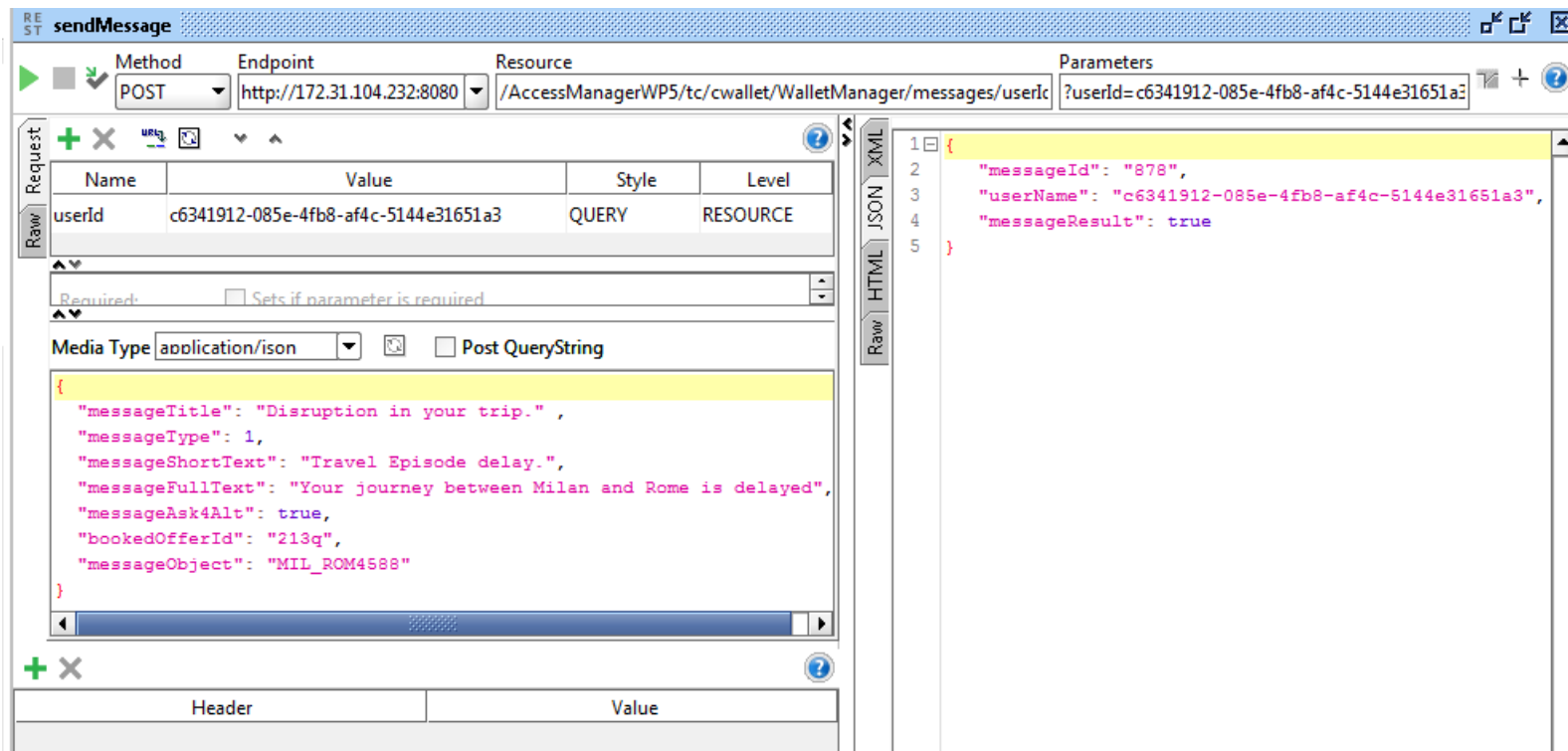
- HTTP/1.1 204 No Content
- Connection: keep-alive
- X-Powered-By: Undertow/1
- Server: WildFly/8
- Transfer-Encoding: chunked
- Content-Type: application/json
- Date: Fri, 24 Nov 2017 09:27:35 GMT

WP5-TC43 sendMessage (Wallet)	
Method Of Test	Demonstration and inspection
Type of test	Manual
Objectives	Check that the sendMessage method of the Wallet works properly and if it fails when the request body doesn't match with the expected one
Description	Call the method with correct parameters first and then with parameter which doesn't match with the expected JSON and look if the answer is the expected (200 when correct one and 400 then)
Status	Passed
% passed	100%

Id	Parameters	Endpoint	Expected result	Observed result	State
A)	QueryParameters: { "userId": "c6341912-085e-4fb8-af4c-5144e31651a3" } Body: { "messageTitle": "Disruption in your trip.", "messageType": 1, "messageShortText": "Travel Episode delay.", "messageFullText": "Your journey between Milan and Rome is delayed", }	http://172.31.104.232:8080/AccessManager WP5/tc/cwallet/WalletManager/messages/us erId	200 OK	200 OK	Success

	<pre>"messageAsk4Alt": true, "bookedOfferId": "213q", "messageObject": "MIL_ROM4588" }</pre>				
B)	<pre>QueryParameters: { "userId":"c6341912-085e-4fb8-af4c-5144e31651a3" } Body: { "messageTitle": "Disruption in your trip." , "messageTypeS": 1, "messageShortText": "Travel Episode delay.", "messageFullText": "Your journey between Milan and Rome is delayed", "messageAsk4Alt": true, "bookedOfferId": "213q", "messageObject": "MIL_ROM4588" }</pre>	http://172.31.104.232:8080/AccessManagerWP5/tc/cwallet/WalletManager/messages/userId	400 Bad Request	400 Bad Request	Success

A) sendMessage (Wallet)-Success



B) sendMessage (Wallet)-Bad Request because this JSON doesn't match with the fields expected

3. TEST SUMMARY

3.1 TESTS PERFORMED

The next table resume the tests performed at WP5 level.

Test Category	Test Case ID	Test Case Name	Status	% Passed
Personal application	WP5-TC01	Account Creation & Preferences	Passed	100%
	WP5-TC02	Login, preferences checking, log out	Passed	100%
	WP5-TC03	Search an offer, book and pay it (from home screen)	Passed	100%
	WP5-TC04	Start Tracking & Send Message	Passed	100%
	WP5-TC05	Last Search	Passed	100%
	WP5-TC06	E-Passport: Register & Update Passport	Passed	100%
	WP5-TC07	E-Passport: read E-Passport	Passed	100%
	WP5-TC08	Happening Viewer	Passed	100%
	WP5-TC09	KPI Viewer	Partially Passed	90%
	WP5-TC10	Navigation	Passed	100%
	WP5-TC11	Multi Device	Passed	100%
	WP5-TC12	Access to the token before Validation	Partially Passed	66%

	WP5-TC13	NFC Validation	Passed	100%
	WP5-TC14	Already existing account	Passed	100%
	WP5-TC15	Wrong Credentials	Passed	100%
	WP5-TC16	Weather Viewer	Passed	100%
	WP5-TC17	My Wallet	Passed	100%
	WP5-TC18	Modify Account	Passed	100%
	WP5-TC19	Travel Questionnaire	Passed	100%
Cloud wallet	WP5-TC20	Login and obtain Tokens for testing other methods	Passed	100%
	WP5 –TC21 to TC26	Payment module methods	Passed	100%
	WP5-TC27 to TC30	User account and its devices methods	Passed	100%
	WP5-TC31 to TC33	Preferences methods	Passed	100%
	WP5-TC34 to TC38	Travel methods	Passed	100%
	WP5-TC39 to TC 43	Trip tracking methods	Passed	100%

3.2 FAILED TEST CASES

WP5-TC09.4

On use case WP5-TC09.04, the failure is due to the fact that Sofia platform wasn't accessible during the testing campaign.

WP5-TC12.3

It was impossible to test the use case WP5-TC12.03 because the QR code tapping module wasn't fully implemented by Thales.

4. CONCLUSION

WP5 achieved to improve the User experience with the Travel Companion app making accessible a set of functionality within It2rail ecosystem.

The Issuing part wasn't accessible within the final testing period and because of this lack you were not able to complete the whole flow to get the ticket. The NFC test was done with direct link to the SNCF TSP to be able to perform the validation test.

Unfortunately it was not possible to perform any QR code validation test because the Issuing reason and because the QR code Tapping module wasn't implemented.