

INFORMATION TECHNOLOGIES FOR SHIFT TO RAIL

D3.4 – Booking & Ticketing Core Integration Report

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EXECUTIVE SUMMARY

This document details the Test Categories and Test Cases identified by the partners for the Core Release of WP3. For each of the test cases identified, a description is included detailing the objectives, expected results and how to perform the testing.

The objectives of this test campaign in particular are to perform unit testing of each of the core modules of WP3, as well as to test the interfaces with other WP3 modules and other WPs. The results obtained for each of the test identified and described here are also included in this document.

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1. INTRODUCTION

This document details the Test Categories and Test Cases identified by the partners for the Core Release of WP2. For each of the test cases identified, a description is included detailing the objectives, expected results and how to perform the testing.

2. REFERENCED DOCUMENTS

2.1 APPLICABLE DOCUMENTS

IT2Rail	D7.2a – Development Readiness Review Pack
WP3 - Indra	WP3_Booking_Ticketing_API_SOAP_v1

Table 1: Documents

2.1 NORMATIVE DOCUMENTS

Not applicable.

3. CAMPAIGN STRATEGY

This chapter describes the objective of the test campaigns covered by this document.

The following test campaign is restricted to WP3 scope and serves for both unit testing and functional testing of WP3 elements of IT2Rail Core release.

WP3 Functional tests are the following:

- Urban Issuing of entitlement
- Urban Issuing of Token
- Urban compute fare price item
- Rail Issuing of Entitlement
- Rail Issuing of Token
- Rail inventory lock
- Rail compute fare price item
- Air booking
- Air issuing of entitlement
- Orchestrate multiple Entitlement Issuing (with Air backend)
- Orchestrate Booking (simulating booking data and input)

4. TEST MATERIAL DESCRIPTION

This chapter lists all the assets required to perform the test campaign. It is organized by configuration. Each test is associated with a particular configuration describing the tested system, its parameter and needed resources to conduct the tests.

4.1 CONFIGURATION WP3-ORCH-AMA01

This configuration is the Amadeus orchestrator system including air backend. It handles TSP orchestration. Any orchestration internal to TSP is not covered by the provided system.

4.1.1 Infrastructure and Hardware

The system consists in web services running at Amadeus premises.

4.1.2 Setup & Configuration

A Non-Disclosure Agreement (NDA) should be signed.

Each client willing to invoke a web service should provide:

- IP address
- Port number
- Name phone and email of the network responsible

All the technical documentation required to connect to Amadeus system will be provided in the Amadeus web service portal at <https://webservices.amadeus.com>. Credential will be provided on-demand.

Amadeus web services uses SOAP protocol over HTTP/HTTPS.

4.1.3 Tested System

For ticket issuance:

Ticket_OrchestrateDeals version 4.1

For booking:

TTR_ManageTrip version 7.1

4.1.4 System Data Parameters

No parameter.

4.1.5 Simulators

No simulator in this configuration.

4.1.6 Personnel

No personnel are required for this configuration.

4.2 CONFIGURATION WP3-RAIL-INDRA01

This configuration is the Indra rail booking and issuing system.

4.2.1 Infrastructure and Hardware

The system consists in web services running at Indra premises.

Structure of the web service is shared at document “WP3_Booking_Ticketing_API_SOAP_v1”.

4.2.2 Setup & Configuration

VPN client should be installed: FORTI client version 5.4.1.

Organization contact should be provided to distribute VPN credential.

Indra web services uses SOAP protocol over HTTP/HTTPS.

For future releases, the following action will need to be performed:

- Loading of topology
- Loading of fare rules
- Loading of dictionaries (operational parameter)
- Load customer
- Load business entities

4.2.3 Tested System

Rail Booking web services:

- ManageBookingI:InventoryLock
- ManageBookingI:ConfirmBooking
- ManageBookingI:IssueEntitlement
- ManageBookingI:IssueToken

Rail Manage offers web services:

- ManageOfferItemI:GetPrice

4.2.4 System Data Parameters

None at the moment.

4.2.5 Simulators

SOAPUI version 5.2.1

4.2.6 Personnel

No personnel are required for this configuration.

4.3 CONFIGURATION WP3-LDB-OLTIS01

This configuration is the OLTIS long distance buses booking and issuing system.

4.3.1 Infrastructure and Hardware

The system consists in API running at OLTIS premises.

Structure of the API together with credentials is described in a separate document.

4.3.2 Setup & Configuration

OLTIS API uses GET/POST methods over HTTP protocol.

4.3.3 Tested System

OLTIS long distance buses booking and issuing system are accessible via API through public internet.

4.3.4 System Data Parameters

No parameter.

4.3.5 Simulators

No simulator in this configuration.

4.3.6 Personnel

No personnel are required for this configuration.

4.4 CONFIGURATION WP3-URBAN-THA01

This configuration is the Thales provided urban system.

4.4.1 Infrastructure and Hardware

Thales IT2Rail test platform is based on 2 VMs (virtual machines):

- “TUP”: Transcity Back-Office
- “ITR”: IT2Rail Gateway

The hardware that hosts these 2 VMs is a PC “HP ZBook” (model 17 G2) with these specifications:

HostName	CPU	Memory (Go)	Hard disk (Go)	OS
TUP (192.168.55.4)	8	32	215	Win 7 Pro SP1

The software installed on the “HP ZBook” to run the 2 VMs is “Oracle Virtual Box 5.0.18”

Specifications for the 2 VMs:

HostName	CPU	Memory (Go)	Hard disk (Go)	OS
TUP (192.168.55.4)	4	20	100	CentOS x64 7.1
ITR (192.168.55.1)	4	4	50	Win 7 Pro SP1

Software installed on VM “TUP”:

- TranscityTM version 2.8.3 (Thales Ticketing Product).

Software installed on VM “ITR”:

- Oracle Java JDK 8
- ITR-GW software component version 0.1 (IT2Rail Gateway to Transcity TM)

4.4.2 Setup & Configuration

Here are listed the setup and configuration required to perform IT2Rail Core Release test campaign.

Start of VM.

Loading of topology

Loading of fare rules

Loading of dictionaries (operational parameter)

Load customer

Load business entities

Load Devices/Equipment

Load the “virtual” fare media

DNS Configuration

The PC “HP Zbook” hosting the 2 VMs has DNS resolution on the following entries:

DNS Entry	Host-name
bo.it2r.com	TUP
m.it2r.com	TUP
services.it2r.com	TUP

The DNS resolution is done by editing the file C:/Windows/System32/drivers/etc.hosts

4.4.3 Tested System

The tested system is composed of:

- TranscityTM software version 2.8.3
- ITR-GW software version 0.1

ITR-GW is the software tested, performing IT2Rail business logic and interacting with TranscityTM product legacy system.

4.4.4 System Data Parameters

List here the data package to use in this test campaign. Example, for urban system stand-alone test, it may include fare parameters, product catalogue and topology parameters.

Ticketing Parameters are identified and provided as TICK-01

Fare Parameters are identified and provided as FARE-01

Product Catalogue is identified and provided as PROD-01

Topology parameters are identified and provided as TOPO-01

Customer is identified and provided as CUSTOMER-01

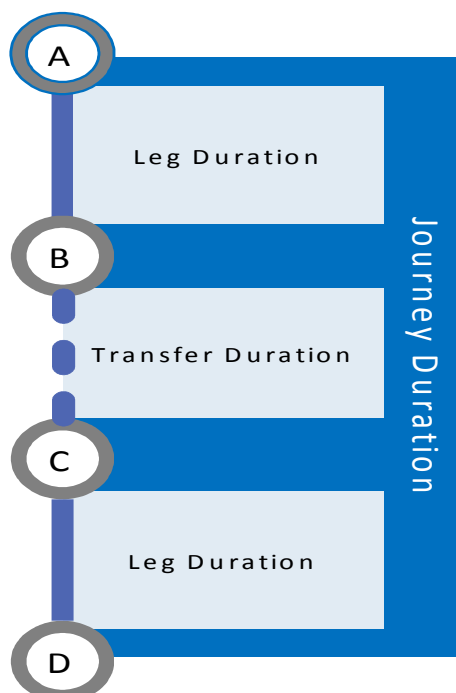
Business Entities are identified and provided as BE-01

Equipment is identified and provided as DEVICE-01

Fare Media is identified and provided as MEDIA-01

Ticketing Parameters

The Ticketing Parameters TICK-01 are defined as follows:



Ticketing parameters are defined as follows:

Item	Predefined	TICK-01
MaxLegDuration	1h	10min
MaxJourneyDuration	2h	30min
MaxJourneyDurationOverride	4h	1h
Free Exit Duration	2min	1min
Missing Price	5.10	5.25
Missing Delay	1 day	1h
Expiration Delay	7 days	1 day

The Max Transfer Duration is defined as follows:

	Metro	Bus
Metro	5 min	7 min
Bus	6 min	8 min

Fare parameters

The Fare Parameters FARE-01 are defined as follows:

	Metro	Bus
Check-In	5 euro	0 euro
Check-Out	0 euro	5 euro

All other Fare Parameters are the default Transcity TM and are not used in IT2Rail test campaign.

Product Catalogue

The Product Catalogue PROD-01 is defined as follows:

	Metro	Bus
Multiride (5 travels)	24.50 euros	24.50 euros
Monthly pass	42.80 euros	42.80 euros

Topology Parameters

The Topology Parameters TOPO-01 are defined as follows:

UPOLYS

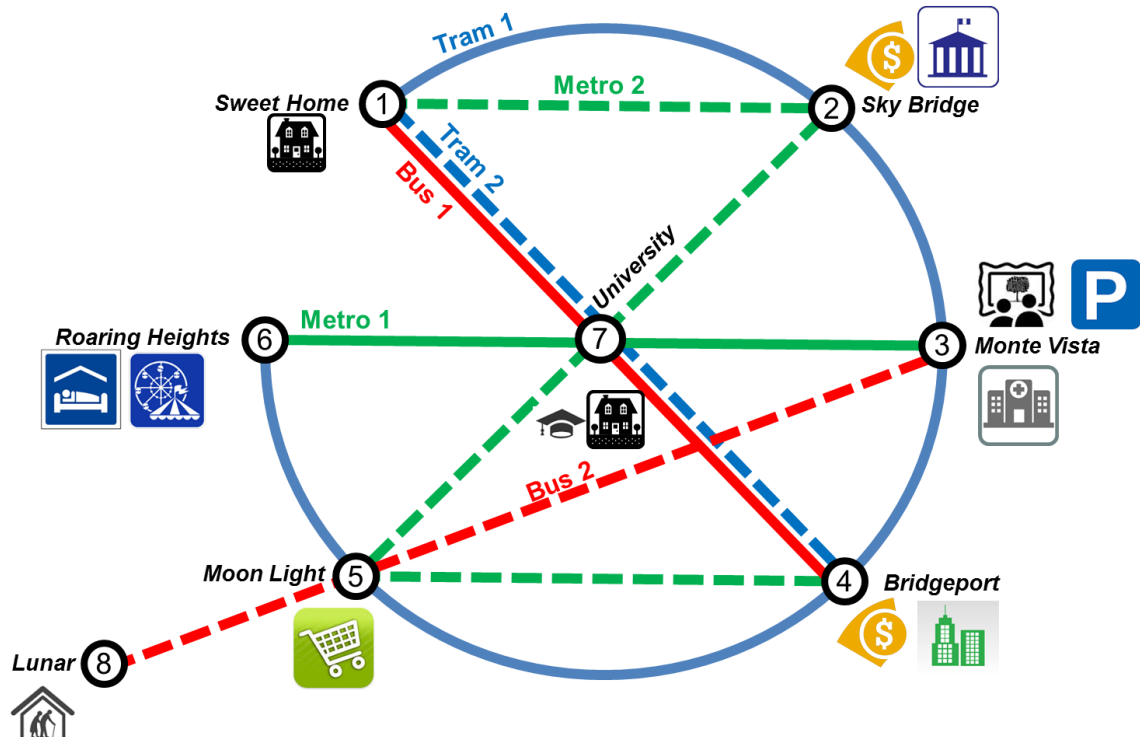


Figure 1: URBAN unit test Topology

Line ID	Line	Open/Close	Transport Mode
1	Metro 1	CI/CO	METRO
2	Metro 2	CI/CO	METRO
3	Tram 1	CI Only	TRAM
4	Tram 2	CI Only	TRAM
5	Bus 1	CI Only	BUS
6	Bus 2	CI Only	BUS

FarePoint ID	FarePoint Name
1	Sweet Home
2	Sky Bridge
3	Monte Vista
4	Bridgeport
5	Moon Light
6	Roaring Heights
7	University
8	Lunar

Customer

The Customer CUST-01 is defined as follows:

- Jane (Jane@mail.com)

4.4.5 Simulators

Here below the simulators used for the IT2Rail test campaign are listed.

Simulated Equipment

The equipment simulated for IT2rail scenario is a subset of the full topology listed here:

Device ID	Device	Type	Fare Point ID	Station	Line ID	Line	Transport Mode
106	GATE_106	GATE	6	Roaring Heights	1	Metro 1	METRO
117	GATE_117	GATE	7	University	1	Metro 1	METRO
103	GATE_103	GATE	3	Monte Vista	1	Metro 1	METRO
211	GATE_211	GATE	1	Sweet Home	2	Metro 2	METRO
202	GATE_202	GATE	2	Sky Bridge	2	Metro 2	METRO
215	GATE_215	GATE	5	Moon Light	2	Metro 2	METRO
204	GATE_204	GATE	4	Bridgeport	2	Metro 2	METRO

Device ID	Device	Type	Line ID	Line	Transport Mode
31	VAL_31	VAL	3	Tram 1	TRAM
41	VAL_41	VAL	4	Tram 2	TRAM
51	VAL_51	VAL	5	Bus 1	BUS
68	VAL_68	VAL	6	Bus 2	BUS

This equipment will be used to simulate the customer traveling experience through multiple urban legs (travel episodes).

These simulators are deployed and executed on the dedicated Thales infrastructure.

4.4.6 Personnel

There are no additional personnel required to perform this test campaign (apart from the Tester himself).

5. TEST DESCRIPTIONS

This chapter contains the test cases that will be executed for the IT2Rail campaign.

5.1 ISSUING TSP ORCHESTRATION

This category regroups test cases for issuing entitlement on different TSP.

5.1.1 WP3-AMA-ORCHAIRISSU001

WP3-AMA-ORCHAIRISSU001	
Method Of Test	Demonstration
Type of test	Automated
Objectives	This test will demonstrate the issuance of an Air entitlement.
Description	Invocation of the orchestration web service that will trigger the issuing of the air entitlement by forwarding the request to the air TSP.
Status	NA
% passed	NA

WP3-ORCH-AMA01	
Regression	NA
Test Case Tester	Taha TRIBAK LYEDRI (TBI)

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - internet connection with HTTP/HTTPS output to Amadeus web services authorized - Run book and price air segment script prior to executing test (air segments used: AF1005Y/16NOV and AF1204Y/18NOV) - have SOAPUI or equivalent				
1	Invoke web service Ticket_OrchestrateDeals version 4.1	Result must be a successful Ticket_OrchestrateDeals response containing ticket number.	NA	NA	NA

5.2 AIR SEGMENT

5.2.1 WP3-AMA-AIRBOOK001: Booking of air segments

WP3-AMA-AIRBOOK001	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Booking air segments from an existing context.
Description	Invocation of the booking webservice that will trigger the booking of air segments from a context.
Status	NA
% passed	NA

WP3-ORCH-AMA01	
Regression	NA
Test Case Tester	Diane De Rivaz

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: <ul style="list-style-type: none"> - internet connection with HTTP/HTTPS output to Amadeus web services authorized - A shopping context exists on Amadeus side: the recommendation contains two AF flights (AF1005Y/16NOV and AF1204Y/18NOV) - have SOAPUI or equivalent 				
1	Invoke web service TTR_ManageTripRQ 7.0 with a reference to the shopping context	Air segments from the shopping context are booked and returned in TTR_DisplayTripRS reply	NA	NA	NA

5.3 URBAN BOOKING AND TICKETING

This category regroups test cases for issuing entitlement on URBAN TSP.

5.3.1 WP3-THA-BT-ENTIT-01: issuing entitlement

WP3-THA-BT-ENTIT-01	
Method Of Test	Demonstration
Type of test	Manual (Semi-Automated)
Objectives	This test aims at demonstrating the ability of the ITR-GW component to achieve the issuance of an urban entitlement.
Description	Invocation of the “entitlement” web service on ITR-GW component that will trigger the issuing of the urban entitlement by forwarding the request to the urban TSP (Transcity TM).
Status	NA
% passed	NA

Test Case 1: Issuing Entitlement – with default configuration WP3-URBAN-THA01	
Test Case Running Status	NA
Test Case Tester	Edouard CARPENTIER

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - The configuration WP3-URBAN-THA01 is loaded - POSTMAN software is deployed on IT2Rail Test Platform				
1	Invoke web service “entitlement” version 0.1 by executing POSTMAN with provided script “WP3-THA-BT-ENT-01”	Result must be an HTTP response 200 OK with a JSON message (see below) containing “EntitlementId” that will be incremented by 1 each time this test is re-executed (matching an ItemOrderId in the Transcity TM ticketing product)	-	NA	

The JSON message in expected result should match the following: { "EntitlementId": "XXXXXXXXXX", "LegalInformation":

"https://www.thalesgroup.com/gts/rcs/legal/000434/v1/en", "ContractReference":

"https://www.thalesgroup.com/gts/rcs/contractreference/000434/v1/en", "SalesPolicies":

"https://www.thalesgroup.com/gts/rcs/salespolicies/000434/v1/en", "ProviderIdentity":

"hQEMA7EGdoXYdp6CAQf+IUUpFbXYRJKHqYK4q4AX1sKjryZrzSyd7kurLPxXb1y2x", "PassengerId": "2ed6e36b-06dc-5919-20a1-

23b1c508e341", "ItineraryOfferItemId": "2ee6e36b-06cd-5919-21a1-23b1c333e341", "Tokens": { "TokenId": "f1855f54-b58a-c331-0ebf-

c5c1aaaae6af", "TokenId": "585129f4-d724-5502-4e0c-e88b03324b76" }, "ConfirmedBookingId": "f1845654-b18a-c341-0ecf-

c5c1c2eeeeaf"} }

5.3.2 WP3-THA-BT-ENTIT-02: issuing tokens

WP3-THA-BT-ENTIT-02	
Method Of Test	Demonstration
Type of test	Manual (Semi-Automated)
Objectives	This test will demonstrate the issuance of an urban token corresponding to an entitlement.
Description	Invocation of the issuance web service on ITR-GW component that will trigger the issuing of the urban token by forwarding the request to the urban TSP (Transcity TM).
Status	NA
% passed	NA

Test Case 1: Issuing token as a JSON message “TokenId” – with default configuration WP3-URBAN-THA01	
Test Case Running Status	NA
Test Case Tester	Edouard CARPENTIER

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - The configuration WP3-URBAN-THA01 is loaded - POSTMAN software is deployed on IT2Rail Test Platform				

Id	Step description	Expected result	Observed result	State	Associated defect
1	Invoke web service “token” version 0.1 by executing POSTMAN with provided script “WP3-THA-BT-ENT-02”	HTTP response 200 OK with a JSON message containing “TokenId” that will be unique per test campaign (see below)	-	NA	

The JSON message in expected result should match the following: { "TokenId": " f1855f54-b58a-c331-0ebf-c5c1aaaae6af " }

Test Case 2: Issuing token as a QRCode image – with default configuration WP3-URBAN-THA01	
Test Case Running Status	NA
Test Case Tester	Edouard CARPENTIER

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - The configuration WP3-URBAN-THA01 is loaded - POSTMAN software is deployed on IT2Rail Test Platform				
1	Invoke web service “token_qrcode” version 0.1 by executing POSTMAN with provided script “WP3-THA-BT-ENT-02”	Result must be an image PNG file representing a QRCode (see below - 1)		NA	

Id	Step description	Expected result	Observed result	State	Associated defect
2	Scan the received QRCode image with any standard QRCode Reader Android application	You should read the content of the QRCode as a JSON message with "TokenId" (see below - 2)		NA	

1 - The scanned QRCode should "reveal" a JSON message that should look like this: { "TokenId": " h1855f54-b58a-c331-0ebf-c5c1aaaae6af " }



2 - The QRCode PNG image should look like this:

5.4 RAIL

This category regroups test for booking rail segment and issuing rail ticket....

5.4.1 WP3-INDRA-LOCK01

4.2.1 WP3-INDRA-LOCK01	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Lock a RAIL inventory
Description	Invocations of the rail inventory lock web service to lock a seat on a train.
Status	NA
% passed	NA

WP3-RAIL-INDRA01	
Regression	NA
Test Case Tester	NA

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: <ul style="list-style-type: none"> - Internet connection and VPN with proper credential - SOAPUI version 5.2.1 - INDRA01 data set as input in document "WP3_Booking_Ticketing_API_SOAP_v1", section "3.1.8 Request InventoryLock" 				
1	Launch SOAPUI and execute INDRA01 script	If itineraryOfferItem.UnitsAvailable>0, then Confirmation message that the lock has been performed. <status>BLOCKED</status> Otherwise <status>PENDING</status>	NA	NA	NA

5.4.2 WP3-INDRA-GETPRICE01

4.2.1 WP3-INDRA-GETPRICE01	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Get a price of itinerary Offer Item
Description	Invocation of web service to get the price of and offer item.
Status	NA
% passed	NA

WP3-RAIL- GETPRICE01	
Regression	NA
Test Case Tester	NA

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: <ul style="list-style-type: none"> - Internet connection and VPN with proper credential - SOAPUI version 5.2.1 - GETPRICE01 data set as input in document "WP3_Booking_Ticketing_API_SOAP_v1", section "3.2.2 Request GetPrice" 				
1	Launch SOAPUI and execute GETPRICE01 script	The merchant information and the provider signature of the item.	NA	NA	NA

5.4.3 WP3-INDRA-ISSUEENTITLEMENT01

4.2.1 WP3-INDRA- ISSUEENTITLEMENT01	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Issue an entitlement
Description	Invocation of web service to issue an entitlement.
Status	NA
% passed	NA

WP3-RAIL-ISSUEENTITLEMENT01	
Regression	NA
Test Case Tester	NA

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: <ul style="list-style-type: none"> - Internet connection and VPN with proper credential - SOAPUI version 5.2.1 - GETPRICE01 data set as input in document "WP3_Booking_Ticketing_API_SOAP_v1", section "3.1.6 Request IssueEntitlement" 				
1	Launch SOAPUI and execute ISSUEENTITLEMENT01 script	Responds with an entitlement, contractReference, legacyInformation, passengerID, salesPolicies Tags information.	NA	NA	NA

5.4.4 WP3-INDRA-CONFIRMBOOKING01

4.2.1 WP3-INDRA-CONFIRMBOOKING01	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Confirm a booking
Description	Invocation of web service to confirm a booking.

4.2.1 WP3-INDRA-CONFIRMBOOKING01

Status	NA
% passed	NA

WP3-RAIL-CONFIRMBOOKING01

Regression	NA
Test Case Tester	NA

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: <ul style="list-style-type: none"> - Internet connection and VPN with proper credential - SOAPUI version 5.2.1 - GETPRICE01 data set as input in document "WP3_Booking_Ticketing_API_SOAP_v1", section "3.1.4 Request ConfirmBooking" 				
1	Launch SOAPUI and execute CONFIRMBOOKING01 script	Responds with the confirmation. "The Booking has been made"	NA	NA	NA

5.4.5 WP3-INDRA-ISSUETOKEN01

4.2.1 WP3-INDRA-ISSUETOKEN01	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Issue a token
Description	Invocation of web service to Issue a token.
Status	NA
% passed	NA

WP3-RAIL-ISSUETOKEN01	
Regression	NA
Test Case Tester	NA

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: <ul style="list-style-type: none"> - Internet connection and VPN with proper credential - SOAPUI version 5.2.1 - GETPRICE01 data set as input in document "WP3_Booking_Ticketing_API_SOAP_v1", section "3.1.2 Request IssueToken" 				

Id	Step description	Expected result	Observed result	State	Associated defect
1	Launch SOAPUI and execute ISSUETOKEN01 script	Responds with the Token id tags.	NA	NA	NA

5.5 LONG DISTANCE BUSES

5.5.1 WP3-OLTIS-C01

WP3-OLTIS-C01	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Shop
Description	Provide itinerary offer items
Status	NA
% passed	NA

WP3-LDB-OLTIS01	
Regression	NA
Test Case Tester	Filip Kvaček

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - Internet connection				
1	Execute OLTIS-C01 script Search for segments within origin and destination with no service on specific date	Error message	-	NA	NA
2	Execute OLTIS-C01 script Search for segments within origin and destination with running service on specific date	List of available segments together with full fare amounts	-	NA	

5.5.2 WP3-OLTIS-C02

WP3-OLTIS-C02	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Get detailed offer list
Description	Provide fare price
Status	NA
% passed	NA

WP3-LDB-OLTIS01	
Regression	NA
Test Case Tester	Filip Kvaček

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - Internet connection				
1	Execute OLTIS-C02 script	Get detailed offer list	-	NA	NA

5.5.3 WP3-OLTIS-C03

WP3-OLTIS-C03	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Booking/Lock an inventory
Description	Invocation of the inventory lock and block of seat
Status	NA
% passed	NA

WP3-LDB-OLTIS01	
Regression	NA
Test Case Tester	Filip Kvaček

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - Internet connection				
1	Execute OLTIS-C03 script Lock an inventory	Confirmation reply with detail on fare and seat number	-	NA	NA

5.5.4 WP3-OLTIS-C04

WP3-OLTIS-C04	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Issue ticket
Description	Deliver Entitlement/Token/Embodiment
Status	NA
% passed	NA

WP3-LDB-OLTIS01	
Regression	NA
Test Case Tester	Filip Kvaček

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - Internet connection				
1	Execute OLTIS-C04 script Process Entitlement/Token/Embodiment	Confirmation reply with contract reference	-	NA	NA

6. TEST EXECUTION

The following chapter presents the different test results of the previously defined test cases. Following heads of chapter are the identification of the test runs.

6.1 CORE-AIR-01

6.1.1 WP3-AMA-ORCHAIRISSU001

WP3-AMA-ORCHAIRISSU001	
Method Of Test	Demonstration
Type of test	Automated
Objectives	This test will demonstrate the issuance of an Air entitlement.
Description	Invocation of the orchestration web service that will trigger the issuing of the air entitlement by forwarding the request to the air TSP.
Status	passed
% passed	100

WP3-ORCH-AMA01	
Regression	NA
Test Case Tester	Taha TRIBAK LYEDRI

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: <ul style="list-style-type: none"> - internet connection with HTTP/HTTPS output to Amadeus web services authorized - Run book and price air segment script prior to executing test (air segments used: AF1005Y/16NOV and AF1204Y/18NOV) - have SOAPUI or equivalent 				
1	Invoke web service Ticket_OrchestrateDeals version 4.1	Result must be a successful Ticket_OrchestrateDeals response containing ticket number.	NA	OK	NA

6.1.2 WP3-AMA-AIRBOOK001: Booking of air segments

WP3-AMA-AIRBOOK001	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Booking air segments from an existing context.
Description	Invocation of the booking webservice that will trigger the booking of air segments from a context.
Status	Passed
% passed	100

WP3-ORCH-AMA01	
Regression	NA
Test Case Tester	Diane De Rivaz

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: <ul style="list-style-type: none"> - internet connection with HTTP/HTTPS output to Amadeus web services authorized - A shopping context exists on Amadeus side: the recommendation contains two AF flights (AF1005Y/16NOV and AF1204Y/18NOV) - have SOAPUI or equivalent 				
1	Invoke web service TTR_ManageTripRQ 7.0 with a reference to the shopping context	Air segments from the shopping context are booked and returned in TTR_DisplayTripRS reply	NA	OK	NA

6.2 CORE-RAIL-01

6.2.1 WP3-INDRA-LOCK01

4.2.1 WP3-INDRA-LOCK01	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Lock a RAIL inventory
Description	Invocations of the rail inventory lock web service to lock a set on a train.
Status	OK
% passed	100

WP3-RAIL-INDRA01	
Regression	NA
Test Case Tester	NA

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: <ul style="list-style-type: none"> - Internet connection and VPN with proper credential - SOAPUI version 5.2.1 - INDRA01 data set as input in document "WP3_Booking_Ticketing_API_SOAP_v1", section "3.1.8 Request InventoryLock" 				
1	Launch SOAPUI and execute INDRA01 script	<p>If itineraryOfferItem.UnitsAvailable>0, then Confirmation message that the lock has been performed.</p> <p>..... <status>BLOCKED</status> Otherwise</p> <p>..... <status>PENDING</status></p>	<p>itineraryOfferItem.UnitsAvailable=15</p> <p>result: <status>BLOCKED</status> itineraryOfferItem.UnitsAvailable=0</p> <p>result: <status>PENDING</status></p>	OK	NA

- XML result itineraryOfferItem.UnitsAvailable=15

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns2:InventoryLockResponse xmlns:ns2="http://indra.es.transporte">
      <BookingElementsList>
        <status>BLOCKED</status>
        <itineraryOfferItem>
          <salesConditions/>
        </itineraryOfferItem>
      </BookingElementsList>
    </ns2:InventoryLockResponse>
  </soap:Body>
</soap:Envelope>
```

```
<afterSalesConditions/>
<paymentMode>VISA</paymentMode>
<travelEpisodeID>
  <travelEpisodeID>EPID4567</travelEpisodeID>
</travelEpisodeID>
<offerItemPrice/>
<offerItemProvider>OIP987</offerItemProvider>
<unitsAvailable>15</unitsAvailable>
</itineraryOfferItem>
</BookingElementsList>
</ns2:InventoryLockResponse>
</soap:Body>
</soap:Envelope>
```

- XML result itineraryOfferItem.UnitsAvailable=0

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns2:InventoryLockResponse xmlns:ns2="http://indra.es.transporte">
      <BookingElementsList>
        <status>PENDING</status>
        <itineraryOfferItem>
          <salesConditions/>
          <afterSalesConditions/>
          <paymentMode>VISA</paymentMode>
          <travelEpisodeID>
            <travelEpisodeID>EPID4567</travelEpisodeID>
          </travelEpisodeID>
          <offerItemPrice/>
          <offerItemProvider>OIP987</offerItemProvider>
          <unitsAvailable>0</unitsAvailable>
        </itineraryOfferItem>
      </BookingElementsList>
```

```
</ns2:InventoryLockResponse>
</soap:Body>
</soap:Envelope>
```

6.2.2 WP3-INDRA-GETPRICE01

4.2.1 WP3-INDRA-GETPRICE01	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Get a price of itinerary Offer Item
Description	Invocation of web service to get the price of and offer item.
Status	OK
% passed	100

WP3-RAIL- GETPRICE01	
Regression	NA
Test Case Tester	NA

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - Internet connection and VPN with proper credential - SOAPUI version 5.2.1 - GETPRICE01 data set as input in document “WP3_Booking_Ticketing_API_SOAP_v1”, section “3.2.2 Request GetPrice”				
1	Launch SOAPUI and execute GETPRICE01 script	The merchant information and the provider signature of the item.	<pre> <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/ soap/envelope/"> <soap:Body> <ns2:GetPriceResponse xmlns:ns2="http://indra.es.transporte"> <OfferItemPriceltem> <merchantInformation>Merchant Information</merchantInformation> <providerSignature>JDUER74UJRKFO98 483UEKEORLOEKLTIKT849</providerSi gnature> </OfferItemPriceltem> </ns2:GetPriceResponse> </soap:Body> </soap:Envelope> </pre>	OK	NA

6.2.3 WP3-INDRA-ISSUEENTITLEMENT01

4.2.1 WP3-INDRA- ISSUEENTITLEMENT01	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Issue an entitlement
Description	Invocation of web service to issue an entitlement.
Status	OK
% passed	100

WP3-RAIL-ISSUEENTITLEMENT01	
Regression	NA
Test Case Tester	NA

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: <ul style="list-style-type: none"> - Internet connection and VPN with proper credential - SOAPUI version 5.2.1 - GETPRICE01 data set as input in document "WP3_Booking_Ticketing_API_SOAP_v1", section "3.1.6 Request IssueEntitlement" 				

Id	Step description	Expected result	Observed result	State	Associated defect
1	Launch SOAPUI and execute ISSUEENTITLEMENT01 script	Response with an entitlement, contractReference, legacyInformation, passangerID, salesPolicies Tags information.	<pre> <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/ envelope/"> <soap:Body> <ns2:IssueEntitlementResponse xmlns:ns2="http://indra.es.transporte"> <Entitlement> <tokenIDList> <ID>TID0002</ID> </tokenIDList> <tokenIDList xsi:nil="true" xmlns:xsi="http://www.w3.org/2001/XMLSchem a-instance"/> <contractReference>REF00001</contractRefer ence> <legacyInformation>legacyInformation</legacyl nformation> <passangerID>792706958</passangerID> <salesPolicies>2 days</salesPolicies> </Entitlement> </ns2:IssueEntitlementResponse> </soap:Body> </soap:Envelope> </pre>	OK	NA

6.2.4 WP3-INDRA-CONFIRMBOOKING01

4.2.1 WP3-INDRA-CONFIRMBOOKING01	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Confirm a booking
Description	Invocation of web service to confirm a booking.
Status	OK
% passed	100

WP3-RAIL-CONFIRMBOOKING01	
Regression	NA
Test Case Tester	NA

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - Internet connection and VPN with proper credential - SOAPUI version 5.2.1 - GETPRICE01 data set as input in document “WP3_Booking_Ticketing_API_SOAP_v1”, section “3.1.4 Request ConfirmBooking”				
1	Launch SOAPUI and execute CONFIRMBOOKING01 script	Response with the confirmation. “The Booking has been made”	<pre><soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"> <soap:Body> <ns2:ConfirmBookingResponse xmlns:ns2="http://indra.es.transporte"> <ConfirmedBooking> <issuingStatus>ISSUED</issuingStatus> <confirmationMessage>The Booking has been made</confirmationMessage> </ConfirmedBooking> </ns2:ConfirmBookingResponse> </soap:Body> </soap:Envelope></pre>	OK	NA

6.2.5 WP3-INDRA-ISSUETOKEN01

4.2.1 WP3-INDRA-ISSUETOKEN01

Method Of Test	Demonstration
Type of test	Automated
Objectives	Issue a token
Description	Invocation of web service to Issue a token.
Status	OK
% passed	100

WP3-RAIL-ISSUETOKEN01

Regression	NA
Test Case Tester	NA

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: <ul style="list-style-type: none"> - Internet connection and VPN with proper credential - SOAPUI version 5.2.1 - GETPRICE01 data set as input in document "WP3_Booking_Ticketing_API_SOAP_v1", section "3.1.2 Request IssueToken" 				
1	Launch SOAPUI and execute ISSUETOKEN01 script	Responds with the Token id tags.	<i>Refer to the XML snippet below</i>	OK	NA

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns2:IssueTokenResponse xmlns:ns2="http://indra.es.transporte">
      <TokenList>
        <tokenID>
          <ID>1472033495697</ID>
        </tokenID>
        <entitlementID>
          <ID>1472033495698</ID>
        </entitlementID>
        <tappingModuleDescription>
          <tappingModuleVersion/>
          <tappingModuleRequirements/>
          <name/>
          <activityName/>
          <downloadURI/>
        </tappingModuleDescription>
      </TokenList>
      <TokenList>
        <tokenID>
          <ID>1472033495697</ID>
        </tokenID>
        <entitlementID>
          <ID>1472033495698</ID>
        </entitlementID>
        <tappingModuleDescription>
          <tappingModuleVersion/>
          <tappingModuleRequirements/>
          <name/>
          <activityName/>
          <downloadURI/>
        </tappingModuleDescription>
      </TokenList>
    </ns2:IssueTokenResponse>
  </soap:Body>
</soap:Envelope>
```

```
</ns2:IssueTokenResponse>
</soap:Body>
</soap:Envelope>
```

6.3 CORE-LDB-01

6.3.1 WP3-OLTIS-C01

WP3-OLTIS-C01	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Shop
Description	Provide itinerary offer items
Status	OK

WP3-LDB-OLTIS01	
Regression	NA
Test Case Tester	Filip Kvaček

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - Internet connection				

Id	Step description	Expected result	Observed result	State	Associated defect
1	Execute OLTIS-C01 script Search for segments within origin and destination with no service on specific date	Error message	As Expected result	OK	NA
2	Execute OLTIS-C01 script Search for segments within origin and destination with running service on specific date	List of available segments together with full fare amounts	As Expected result	Passed	NA

6.3.2 WP3-OLTIS-C02

WP3-OLTIS-C02	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Get detailed offer list
Description	Provide fare price
Status	OK

WP3-LDB-OLTIS01	
Regression	NA
Test Case Tester	Filip Kvaček

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - Internet connection				
1	Execute OLTIS-C02 script	Get detailed offer list	As Expected result	OK	NA

6.3.3 WP3-OLTIS-C03

WP3-OLTIS-C03	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Booking/Lock an inventory
Description	Invocation of the inventory lock and block of seat
Status	OK

WP3-LDB-OLTIS01	
Regression	NA
Test Case Tester	Filip Kvaček

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - Internet connection				
1	Execute OLTIS-C03 script Lock an inventory	Confirmation reply with detail on fare and seat number	As Expected result	OK	NA

6.3.4 WP3-OLTIS-C04

WP3-OLTIS-C04	
Method Of Test	Demonstration
Type of test	Automated
Objectives	Issue ticket
Description	Deliver Entitlement/Token/Embodiment
Status	OK

WP3-LDB-OLTIS01	
Regression	NA
Test Case Tester	Filip Kvaček

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - Internet connection				
1	Execute OLTIS-C04 script Process Entitlement/Token/Embodiment	Confirmation reply with contract reference	As Expected result	OK	NA

6.4 CORE-URBAN-01

This campaign was run on the 23rd of August 2016.

6.4.1 WP3-THA-BT-ENTIT-01: issuing entitlement

WP3-THA-BT-ENTIT-01	
Method Of Test	Demonstration
Type of test	Manual (Semi-Automated)
Objectives	This test aims at demonstrating the ability of the ITR-GW component to achieve the issuance of an urban entitlement.
Description	Invocation of the “entitlement” web service on ITR-GW component that will trigger the issuing of the urban entitlement by forwarding the request to the urban TSP (Transcity TM).
Status	OK
% passed	100

Test Case 1: Issuing Entitlement – with default configuration WP3-URBAN-THA01

Test Case Running Status	Run on 2016_08_23 at 11h10
Test Case Tester	Edouard CARPENTIER

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - The configuration WP3-URBAN-THA01 is loaded - POSTMAN software is deployed on IT2Rail Test Platform				
1	Invoke web service “entitlement” version 0.1 by executing POSTMAN with provided script “WP3-THA-BT-ENT-01”	Result must be an HTTP response 200 OK with a JSON message (see below) containing “EntitlementId” that will be incremented by 1 each time this test is re-executed (matching an ItemOrderId in the Transcity TM ticketing product)	Returned JSON message is as expected (see below)	OK	

The JSON message in expected result is: { "EntitlementId": "000000022-01", "LegalInformation":

"https://www.thalesgroup.com/gts/rcs/legal/000434/v1/en", "ContractReference":

"https://www.thalesgroup.com/gts/rcs/contractreference/000434/v1/en", "SalesPolicies":

"https://www.thalesgroup.com/gts/rcs/salespolicies/000434/v1/en", "ProviderIdentity":

"hQEMA7EGdoXYdp6CAQf+IUUpFbXYRJKHqYK4q4AX1sKjryZrzSyd7kurLPxXb1y2x", "PassengerId": "2ed6e36b-06dc-5919-20a1-

23b1c508e341", "ItineraryOfferItemid": "2ee6e36b-06cd-5919-21a1-23b1c333e341", "Tokens": { "TokenId": "f1855f54-b58a-c331-0ebf-

c5c1aaaae6af", "TokenId": "585129f4-d724-5502-4e0c-e88b03324b76" }, "ConfirmedBookingId": "f1845654-b18a-c341-0ecf-

c5c1c2eeeeaf"} }

6.4.2 WP3-THA-BT-ENTIT-02: issuing tokens

WP3-THA-BT-ENTIT-02	
Method Of Test	Demonstration
Type of test	Manual (Semi-Automated)
Objectives	This test will demonstrate the issuance of an urban token corresponding to an entitlement.
Description	Invocation of the issuance web service on ITR-GW component that will trigger the issuing of the urban token by forwarding the request to the urban TSP (Transcity TM).
Status	KO
% passed	50

Test Case 1: Issuing token as a JSON message “TokenId” – with default configuration WP3-URBAN-THA01	
Test Case Running Status	Run on 2016_08_23 at 11h25
Test Case Tester	Edouard CARPENTIER

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: <ul style="list-style-type: none"> - The configuration WP3-URBAN-THA01 is loaded - POSTMAN software is deployed on IT2Rail Test Platform 				

Id	Step description	Expected result	Observed result	State	Associated defect
1	Invoke web service “token” version 0.1 by executing POSTMAN with provided script “WP3-THA-BT-ENT-02”	HTTP response 200 OK with a JSON message containing “TokenId” that will be unique per test campaign (see below)	The result was a HTTP 404 fault page.	Passed	

The JSON message in expected result is: { "TokenId": " f1855f54-b58a-c331-0ebf-c5c1aaaae6af " }

Test Case 2: Issuing token as a QRCode image – with default configuration WP3-URBAN-THA01

Test Case Running Status	Run on 2016_08_23 at 11h33
Test Case Tester	Edouard CARPENTIER

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - The configuration WP3-URBAN-THA01 is loaded - POSTMAN software is deployed on IT2Rail Test Platform				
1	Invoke web service “token_qrcode” version 0.1 by executing POSTMAN with provided script “WP3-THA-BT-ENT-02”	Result must be an image PNG file representing a QRCode (see below - 1)	The returned result is a JSON message with “TokenId”	Passed	

Id	Step description	Expected result	Observed result	State	Associated defect
2	Scan the received QRCode image with any standard QRCode Reader Android application	You should read the content of the QRCode as a JSON message with "TokenId" (see below - 2)	The content for the QRCode is an ASCII String containing a GUID but not a JSON message	Failed	

6.4.3 WP3-THA-BT-FARE-01: Compute fare price

WP3-THA-BT-FARE-01	
Method Of Test	Demonstration
Type of test	Manual (Semi-Automated)
Objectives	This test will demonstrate the pricing of an OfferItem.
Description	Invocation of the issuance web service on ITR-GW component that will trigger the pricing of the offer item in parameter by forwarding the request to the urban TSP (Transcity TM).
Status	OK
% passed	100

Test Case 1: Computing Fare Price – with default configuration WP3-URBAN-THA01	
Test Case Running Status	Run on 2016_08_23 at 11h48
Test Case Tester	Edouard CARPENTIER

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - The configuration WP3-URBAN-THA01 is loaded - POSTMAN software is deployed on IT2Rail Test Platform				
1	Invoke web service “price” version 0.1 by executing POSTMAN with provided script “WP3-THA-BT-FARE-01”	Result must be an HTTP response 200 OK with a JSON message containing an “OfferItem Price” with an amount of 24.50 euros (see below)	Result is as expected	Passed	

The JSON message in expected result is: { "ItineraryOfferItemId": "3ee6e36b-06cd-5919-21a1-23b1c333e34", "ItineraryOfferItemPrice": "24.50 EUR" }

6.5 CORE-URBAN-02

This campaign was run on the 30th of August 2016.

6.5.1 WP3-THA-BT-ENTIT-02: issuing tokens

WP3-THA-BT-ENTIT-02	
Method Of Test	Demonstration
Type of test	Manual (Semi-Automated)
Objectives	This test will demonstrate the issuance of an urban token corresponding to an entitlement.

WP3-THA-BT-ENTIT-02	
Description	Invocation of the issuance web service on ITR-GW component that will trigger the issuing of the urban token by forwarding the request to the urban TSP (Transcity TM).
Status	OK
% passed	100

Test Case 1: Issuing token as a JSON message “TokenId” – with default configuration WP3-URBAN-THA01	
Test Case Running Status	Run on 2016_08_30 at 14h30
Test Case Tester	Edouard CARPENTIER

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - The configuration WP3-URBAN-THA01 is loaded - POSTMAN software is deployed on IT2Rail Test Platform				
1	Invoke web service “token” version 0.1 by executing POSTMAN with provided script “WP3-THA-BT-ENT-02”	HTTP response 200 OK with a JSON message containing “TokenId” that will be unique per test campaign (see below)	The returned result is a JSON message with “TokenId”	OK	

The JSON message in expected result is: {"TokenId": "f1855f54-b58a-c331-0ebf-c5c1aaaae6af"}

Test Case 2: Issuing token as a QRCode image – with default configuration WP3-URBAN-THA01

Test Case Running Status	Run on 2016_08_30 at 14h35
Test Case Tester	Edouard CARPENTIER

Id	Step description	Expected result	Observed result	State	Associated defect
	Preconditions: - The configuration WP3-URBAN-THA01 is loaded - POSTMAN software is deployed on IT2Rail Test Platform				
1	Invoke web service “token_qrcode” version 0.1 by executing POSTMAN with provided script “WP3-THA-BT-ENT-02”	Result must be an image PNG file representing a QRCode (see below - 1)	The returned result is a JSON message with “TokenId”	OK	
2	Scan the received QRCode image with any standard QRCode Reader Android application	You should read the content of the QRCode as a JSON message with “TokenId” (see below - 2)	The content for the QRCode is an ASCII String containing a GUID but not a JSON message	OK	

1 - The scanned QRCode “reveals” a JSON message that is like this: {"TokenId":"h1855f54-b58a-c331-0ebf-c5c1aaaae6af "}



2 - The QRCode PNG image is the following: