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API Kick-off Meeting

[Tutu Travel Limited]
Tutu Travel AQC App

API Consulting Services
[02/03/2022]

AGENDA

01

INTRODUCTION

Who we are, who you are

02

PROJECT SCOPE

What is your need

03

PRODUCT PRESENTATION

Overview of the flows to be integrated

04

IMPLEMENTATION

The steps to reach our goal

05

API DEVELOPERS' PORTAL

Understanding where to find the knowledge

1.
Introduction

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Stakeholders

API consultant Amadeus	Delivery Segment Amadeus	Account Manager Amadeus	Lead developer Customer	Project manager Customer
Name: Gladys Santos	**Name:** Adebukola Adekeye	**Name:** Ayodapo Adigun	**Name:** Pei Xutong	**Name:** Zhang Qianfeng
Role: _Guidelines & Recommendations _Manage SAP creation & modification _Guidance during integration phase.	**Role:** _Ensure delivery of project in agreed scope & time frame to the level of customer requirement.	**Role:** _Commercial liaison.	**Role:** _Develop application as per agreed scope. _Share development plan. _Review documentation provided by Amadeus.	**Role:** _Ensure delivery of project in agreed scope & time frame. _Ensure good communication with API consultant on project.

2. Project scope

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Project Scope

Application Name	**Tutu Travel AQC**
Application Type	Public website
End User	B2C
Header Version (SOAP only)	N/A
Development Platform (SOAP only)	N/A
Key Functionalities	• AQC air booking • Search and book Ancillary services – Bags and Seats • PNR cancelation • Show the fare rules using Amadeus MiniRules product • Complex Itinerary • Search by FBA (Free Baggage Allowance) (to be able to search recommendations with free luggage included) • One-way combinable fares • Retrieve the list of PNRs in a queue • Delay Queuing, Error Queuing and Immediate Queuing (for definitions please refer to Amadeus Web Services Questionnaire) • Get Flight Order By Record Locator
Office ID(s)	LOSN828UU
SAP Name	1ASIUTCH7UUTUT

3. Product Presentation

Modules and Project Scope

Amadeus Quick Connect

_**Amadeus Quick-Connect** is a set of APIs based on REST/JSON and accessible via Ama4Dev portal that allows to book flights and ancillaries.

_**Amadeus Quick-Connect** has been created to reduce time-to-market for a customer application

Amadeus Quick-Connect offers:

- Simple and customizable end-to-end flow

- Easy Implementation

- Multi-content : Full-Service Carrier (FSC), Light Ticketing Carriers (LTC), Pyton and Extended Air Choice (EAC).

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Modules and Project Scope

Amadeus Quick-Connect

REST JSON API

Prime Booking Flow

Flight Offers **Search**
Flight Offers **Price**
Flight Orders **Create**

Order Management

Flight **Get Order**
Flight **Delete**
Flight **Patch**

get access to

Air Content (FSC, LCC)

Admin UI for
Customization (Configuration Questionnaire)

Services

Dedicated implementation consultancy

Modules and Project Scope
Flight Offer Search - cheap & relevant flight availabilities and fares

Request

_ Traveler type (adult, child...)
_ Fare types (public, negotiated, IT fares)
_ One-way combinable
_ Open Jaws for Full-Service Carriers only
_ Cabin restriction
_ Excluded/included carriers
_ GDS/Low Cost Carriers (LCC)
_ Get a calendar view
_ Baggage allowance and chargeable bags
_ Fare Families
_ Max number of connections

For a full list of option check the swagger specs*

Response

_ Fare per passenger
_ Last ticketing date
_ Flight duration
_ Segment details: airport codes, terminal (FSC only), marketing/operating carrier, number of stops
_ Baggage allowance, included checked bags
_ 1st additional check bags can be sent in search response if applicable.
_ Cabin class

Scope

_ Do you have negotiated, corporate or IIT Fares? Not yet, We are working on it.

_ Are you interested in One-Way combinables? Yes

_ Are you interested in complex itineraries? Yes

_ Are we including Pyton, EAC and LTC content? No

Modules
Flight Offers Price - confirm price and get details

Request

_ Flight Offer
(Reuse object from Flight Offers Search response available)
_ Payment method
_ Traveler information
_ Informative best pricing
_ Parameter to request additional bags

Response

_ Type of fare
_ Taxes in detail
_ Fees if applicable
_ Payment requirements
_ Booking requirements

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Scope

_ Are you including chargeable bags? yes
_ The Flow requires an additional Price call than the prime Booking Flow:

- Flight offers Search
- Flight Offers Price – triggers the catalogue and confirms the chargeable bags price
- Flight Offers Price – request the chargeable bags
- Flight Orders Create

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Modules and Project Scope
Baggage – Chargeable checked bags

Flight Offers **Search**

- Free bag allowance: parameter in search to get only fares including free bags.
- Additional Bags to get price for 1st additional bag

Flight Offers **Price**

- Parameter to add in the price request
- Depending on the carrier, you can also request a 2nd or 3rd extra bag at the price step
- Chargeable baggage options offered by carrier are returned in the "included" object

Flight Offers **Price**

- Request should include the chargeable bags selected by traveller
- "grandTotal" needs to be manually updated to include the chargeable bags fees
- Response will confirm fare, taxes,, fees and bags.

Flight **Create** Orders

- Creation of PNR with chargeable bags.

Modules and Project Scope

Clarification

Set to true in questionnaire – are you sure about this choice?
After clarification, Tutu Travel approved for the value to be changed to false. Update is done in Amadeus system.

Travel preferences

TRUE	Return Fares Including Checked Bags Only	Makes the system return recommendations with at least one bag included in the fare ; *Pre req : OID configuration*
TRUE	Return Chargeable Checked Bags Price	Determines whether the price of the first additional bag should be returned at search ; *Pre req : OID configuration*
False	Return Branded Fares	Returns the Airline Fare families names in LowFareSearch reponse ; *Pre req : OID configuration*
TRUE	Return Mini-Rules	**Chargeable:** Returns the Amadeus Mini-Rules for eligible offers (possibility of refund, exchange, revalidation and their penatlies); *Pre req : OID configuration*

Modules and Project Scope

API

Flight Create Order - perform a flight booking including ancillaries
Pay & Issue in 1 unique step!

Request

- Book regular carriers
- Book Low Cost Carriers (LCC)
- Book Ancillary Services
- Book & Pay (Virtual Card)
- Traveler information
- Payment information
- Remarks
- Queue place
- Documents (passport, ID, visa...)
- Travel agency contact information

Response

- Order ID
- Recloc ID (PNR)
- Flight Order with all elements booked/stored in the order
- Ticket number (FSC only)

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Scope

_ **Which ticketing solution you would like to implement?
Non of them. Ticketing will be done offline.**

    _ **After order creation – Standalone**

    _ **At order creation time – Immediate**

Modules and Project Scope
Issuance – out of scope

1. At order creation time - Immediate

POST
/booking/flight-orders?issue=true

2. After order creation - Standalone

POST
/booking/flight-orders/{{book_id}}/issuance

Sample Get Order response:

```
"tickets": [
    {
        "documentType": "ETICKET",
        "documentNumber": "057-3322491266",
        "documentStatus": "ISSUED",
        "travelerId": "1",
        "segmentIds": [
            "1",
            "2"
        ]
    },
    {
        "documentType": "EMD",
        "documentNumber": "057-1858808477",
        "documentStatus": "ISSUED",
        "travelerId": "1",
        "segmentIds": [
            "1"
        ]
    }
```

Scope:
Are you interested in developing this option?

Modules and Project Scope

Flight Order Management - manage your existing booking record

API

1. Get your order information

GET
/booking/flight-orders/{flight-ordered}

An OrderID is a unique identifier of QuickConnect Orders

2. Cancel order if not issued

DELETE
/booking/flight-orders/{flight-ordered}

3. Add a seat after booking / Add travelers documents

PATCH
/booking/flight-orders/{flight-ordered}

Sample Get Order response:

```
{
    "data": {
        "type": "flight-order",
        "id": "<<orderID>>",
        "queuingOfficeId": "<<OID>>",
        "associatedRecords": [
            {
                "reference": "<<PNR_ID>>",
                "originSystemCode": "AF",
                "flightOfferId": "1"
            },
            {
                "reference": "<<PNR_ID>>",
                "creationDate": "2019-07-01T14:26:00",
                "originSystemCode": "GDS",
                "flightOfferId": "1"
            }
        ],
        "flightOffers": [
            { ...}
        ]
    }
}
```

Scope:
Are you interested in developing this service?

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Modules and Project Scope

Get Flight Order By Record Locator

This API allows you to retrieve your booking information using a Record Locator in parameter

GET
/booking/flight-orders/by-reference?reference={record-locator}&originSystemCode=GDS

Sample Get Flight Order By Record Locator response:

```
{
    "data": {
        "type": "flight-order",
        "id": "<<orderID>>",
        "queuingOfficeId": "<<OID>>",
        "associatedRecords": [
            {
                "reference": "<<PNR_ID>>",
                "originSystemCode": "AF",
                "flightOfferId": "1"
            },
            {
                "reference": "<<PNR_ID>>",
                "creationDate": "2019-07-01T14:26:00",
                "originSystemCode": "GDS",
                "flightOfferId": "1"
            }
        ],
        "flightOffers": [
            {…}
        ]
    }
}
```

Scope:

Are you interested in developing this service?

Modules and Project Scope
Flight Availabilities Search

API

Get "flight-availabilities" containing air availability, schedules and timetable information

POST
/v1/shopping/availability/flight-availabilities

Sample Flight Availabilities Search response:

```
{ "originDestinations": [ {
        "id": 1, "originLocationCode": "PAR",
        "destinationLocationCode": "NYC",
        "departureDateTime": {
                "date": "2021-09-22",
                "time": "10:30:00" } } ],
    "travelers": [ {
            ...
"sources": [ "GDS" ],
"searchCriteria": {
    "excludeAllotments": false,
    "flightFilters":
        {
            "cabinRestrictions": [ {
                "cabin": "PREMIUM_ECONOMY",
                "originDestinationIds": [ 1 ] } ],
            "connectionRestriction":
                {
                    "maxNumberOfConnections": 2,
                    "airportChangeAllowed": false,
                    "technicalStopsAllowed": true } },
"includeClosedContent": false,
"class": "A" }
```

Scope:
Are you interested in developing this service? yes

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Ancillary Services

Use **Seat Map** plug-in to book your seats **or** build your own UI on top of our API
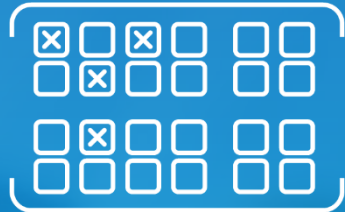
Seat map display:

GET: to list the seat map of every flight in a flight Order

GET
/shopping/seatmaps

POST: to retrieve the seat map of every flight in a flight Offer

POST
/shopping/seatmaps

2 different use cases:

1. Book seat **during booking flow** of flight

2. Book seat **after booking the flight** from an existing order before issuance

Seamless display of all seat maps proposed by airlines thanks to the widget developed by Amadeus

Providing travelers free and/or chargeable seats at booking time

Customize the design to fit your own graphical charter

Scope - Ancillary Services – Seat reservation

_ Ancillary services Flow – Seat reservation during PNR Creation

- Flight offers Search
- Seatmap Display by offer
- Flight Offers Price
- Flight Orders Create
- Get

Scope - Ancillary Services – Seat reservation

_ Ancillary services Flow – Seat reservation after PNR Creation

- Get
- Seatmap Display by order
- Patch
- Get

Modules
General Information

- Amadeus Quick Connect generates a unique Ama-Request-ID.

- An <u>Ama-client-ref</u> must be added to each customer flow in order to ease analysis on our side.

- Certification of the application will be done using a Dedicated Access. API Consultant will let you know once this access has been created.

- Application will be moved to production once the certification is completed.

4. Implementation

Project Life Cycle

Construction (per phase)

_ Access delivery.

_ Development of user stories.

_ Validation.

Kick-Off

_ Definition of scope details.

_ Workflow design.

_ Definition of phases.

GO!

1.

2.

3.

Go-Live

_ Launch of the application in production.

_ Transitional Support (option 2).

_ Project closure.

Transition

_ Delivery of report.

_ Delivery of production access.

_ Transitional Support (option 1).

Project duration: 1 month
Assumptions:
Project start: 23 Feb
Project closure: 23 March
Live feedback on scope and timing : development team is ready to start once credentials are shared by Gladys? yes

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Implementation

Example of REST Use cases (full list available in the Integration guide (Developers Portal)

Use Case	Implementation Type/Content Source	Scenario	Ama-Client-Ref	Date	Status
1	Booking flow – Main Full Service Carrier (FSC)	Search, Price and Book FSC content with Published Fares for a family PNR (2ADTs, 1CHD, 1INF)			
2	Booking flow – One-way combinable	Search, Price and Book one-way combinable Fares for 2ADTs			
3	Booking flow – Ancillary Bags (chargeable)	Search, Price and Book FSC with Published Fares for a family PNR (2ADTs, 1CHD, 1INF) including chargeable bags for all qualifying passengers			
4	Booking flow – Ancillary Bags (chargeable)	Search, Price and Book FSC with Published Fares for a family PNR (2ADTs, 1CHD, 1INF) including chargeable bags only for the 2 adults			
5	Booking flow – Ancillary Seats (chargeable)	Search, Price and Book FSC with Published Fares for a family PNR (2ADTs, 1CHD, 1INF) including chargeable seats for all qualifying passengers – during PNR creation			
6	Flight Order Management	Search, Price and Book FSC with Published Fares for a family PNR (2ADTs, 1CHD, 1INF) including chargeable seats for all qualifying passengers – after PNR creation			
7	Flight Order Management	Search, Price, Book, GET, and CANCEL an order id			
8	Flight Order Management	Search, Price, Book, GET, and PATCH an order id – Add remarks			

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5.
Developers portal

The Amadeus Developer Portal

_ https://developers.amadeus.com/
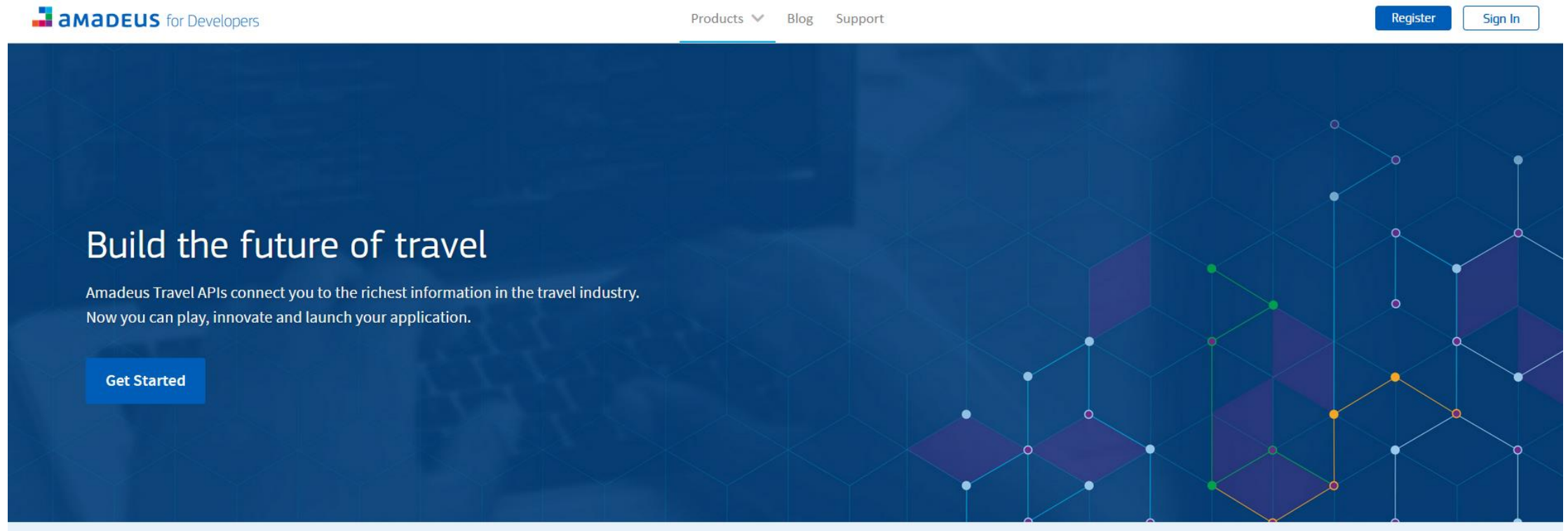
_Customized secured access with all relevant information and tools: product news, functional doc, test zone, etc.

The Amadeus Developer Portal

Functional documentation

‒ User guides & Implementation guides written by the functional experts.

‒ Examples of XML queries & replies.

‒ Detail of query & response structure for each web service.
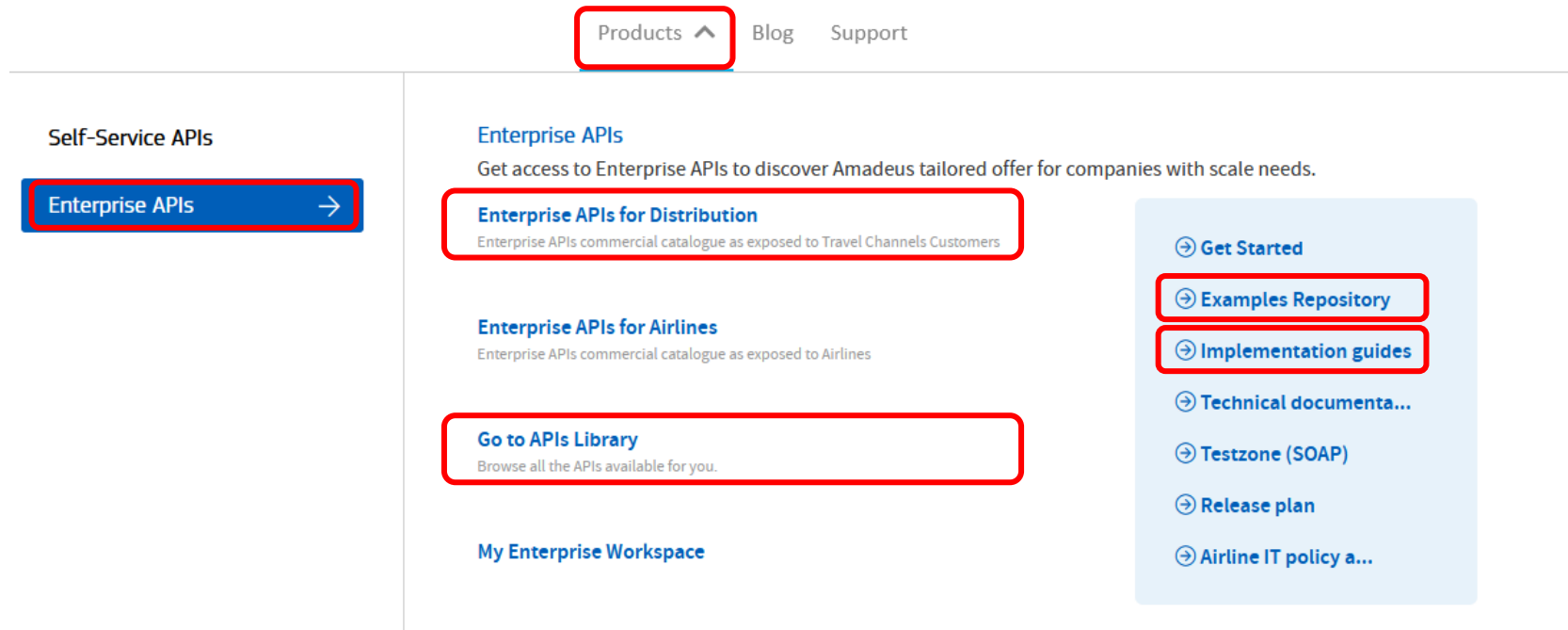
Amadeus Developers Portal

Functional Documentation

Amadeus Developers Portal

REST APIs - Functional Documentation

The Amadeus Developer Portal

Technical documentation

REST guides

Ready to use our Enteprise REST APIs? Here you will learn how to get started along with best practices and recommendations.

Go to REST guides

Swagger codegen

The aim of this tutorial is to provide a step by step procedure to successfully consume REST JSON APIs exposed by Amadeus by creating your own client.

Go to Swagger codegen tutorial

Products ∧   Blog   Support

Self-Service APIs

Enterprise APIs →

Enterprise APIs
Get access to Enterprise APIs to discover Amadeus tailored offer for compa

Enterprise APIs for Distribution
Enterprise APIs commercial catalogue as exposed to Travel Channels Customers

Enterprise APIs for Airlines
Enterprise APIs commercial catalogue as exposed to Airlines

Go to APIs Library
Browse all the APIs available for you.

My Enterprise Workspace

General guidelines

Session management best practices

Here are some guidelines about the best practices for handling sessions. Click here to read more.

⊕ **Examples Repository**

⊕ **Implementation guides**

⊕ **Technical documenta...**

⊕ **Testzone (SOAP)**

⊕ **Release plan**

⊕ **Airline IT policy a...**

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Amadeus Developers Portal

REST Application - How to find the credentials

1.

2.

Amadeus Developers Portal

REST Application - How to find the credentials

2.

Amadeus Developers Portal

REST Application - How to find the credentials

3.

App keys

You can use these keys to consume all our Enterprise APIs. To learn more about how our APIs work check the quick start guide.

Sandbox keys

API Key: VYimaVyhoimwPjXYq7UzEwNkIBpVDNuk

API Secret: ●●●●●●●●●●●●●●

Production access

This application is only used in test environment. To get production access, the user needs to get in touch with his account manager.

Click to Copy

AccessCredentials details in Test

SAP: 1ASIUTCHaaabbb

LSS org ID: NMC-xxxx

LSS office ID: NCExxxxxx

LSS user ID: USaaabbb

Recap

Summary and next step

_ Project scope:

- See slide 6

_ Questions, Ama-Client-Ref, & test date to be sent to our group mailbox: apiconsulting-wemea@amadeus.com

_ Please include your company name in email title e.g. [Tutu Travel Tourism Limited]...

_ 30 minutes weekly call with the developer and the testing team. Invitation will be sent.

_ Materials to be shared with you after this meeting:

- Information on how to access API Key and secret once the application is ready in test (PDT)
- AQC implementation guide and examples
- Postman Collections (examples)
- This presentation (Kick off)
- Meeting minutes
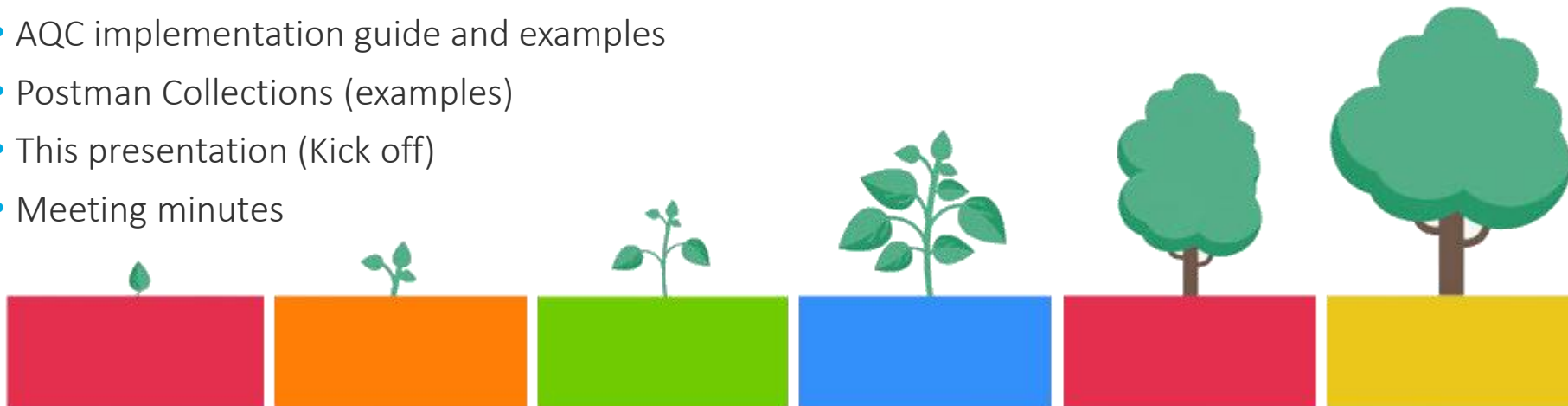
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Any Questions?

Thank you!

You can follow us on:
AmadeusITgroup