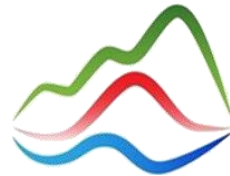




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**MINISTERO
DEL TURISMO**
REPUBBLICA ITALIANA



TDH – Expressions of Public Interest (Online booking hotel) – Tech Requirements

CONTRATTO ESECUTIVO PER L'AFFIDAMENTO DI "TOURISM DIGITAL HUB - TDH" MEDIANTE ORDINATIVO DI
FORNITURA NELL'AMBITO DELL'ACCORDO QUADRO PER I SERVIZI APPLICATIVI PER LE PUBBLICHE AMMINISTRAZIONI
STIPULATO DA CONSIP - ID 2212 – LOTTO 1

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1 Purpose of the document

The purpose of the document is the sharing of architectural information about the implementation of the Interconnection APIs between the TDH and Hotellerie operators who want to enroll on it. In this regard, the following interconnection APIs should be considered:

- *Ingestion*
- *Research*
- *Booking*
- *Payment*
- *Booking Status*

By means of APIs just mentioned then, Hotellerie operators enrolled on Tourism Digital Hub (TDH) will be able to export information about their business, permits the possibility to book a room, pay it and shows the booking status.

2 Acronyms and definitions

Acronym	Description
AEM	Adobe Experience Manager
API	Application Program Interface
REST	Representational State Transfer
SOAP	Simple Object Access Protocol
TDH	Tourism Digital Hub

Table 1 – Acronyms and definitions

3 Authorization

In order to manage the interconnections, the following authorization method is needed: OAuth2. "ApplicationID" e "ApplicationSecret" will be shared through the authorization and calling a service in BasicAuthentication it will be give back a Temporay Alphanumeric code (Bearer)

The Bearer should be used as Authorization for all the APIs and has an expiration:

- Time limit
- Time limit / number of interconnections

The Bearer should be saved and used for all the interconnections until its expiration. After the expiration it should be regenerated

4 Interconnection format and method

The services will be exposed through API/REST or SOAP protocols.

Swagger and WSDL will be available on the Developer Portal.

The services will be invocable only through HTTP POST e GET methods.

5 Ingestion

It should be available one or more method to manage the data ingestion of all the accommodation facilities connected.

5.1 Ingestion – Request

In the Request we expect the following parameters:

Mandatory fields:

- Language → language needed for the export of the data

Preferable fields:

- Region → Region of interest for the export
- lastUpdate → Field to manage the possible delta in the export

5.2 Ingestion – Response

In the Response we expect the following parameters:

Mandatory fields:

- ID Facility
- Facility name
- Position
- Address
- Description
- Review
- Amenity

Preferable fields:

- lastUpdate → Field to manage the possible delta in the export

6 Research

It should be available one or more method to manage the room availability and pricing options of all the accommodation facilities connected.

6.1 Research – Request

In the Request we expect the following parameters:

Mandatory fields:

- ID Facility
- City → to search the best accommodation facility in the city (to be confirmed)

- Region → to search the best accomodation facility in the region (to be confirmed)
- Check-in
- Check-out
- Pax

Preferable fields:

- Filters → to refine the search (ranking, price, typology) (to be confirmed)

6.2 Research – Response

In the Response we expect the following parameters:

Mandatory fields:

- Room details
 - o ID Room
 - o Description
 - o Amenity
 - o Price (VAT included/excluded)
- Delete Policy
- Payment method

Preferable fields:

- Services
- Review
- Ratings
- More info (parking, Reception..)

7 Booking

It should be available one or more method to manage the possibility to book/edit/delete a reservation.

7.1 Booking – Request

In the Request we expect the following parameters:

Mandatory fields:

- ID Facility
- ID Room
- Action → Book, Edit, Cancel
- Payment method
- Check-in
- Check-out
- Pax
- Pax_child

Preferable fields:

- Additional Requests

7.2 Booking – Response

In the Response we expect the following parameters:

Mandatory fields:

- ID Booking
- ID Order
- Payment method

8 Payment

The payment must be managed by a certified external provider who must manage the transaction and return a feedback / confirmation on the payment.

No personal data of the customer (credit card and / or other) must be saved

9 Booking Status

It should be available one or more method to receive information on the reservation status.

9.1 Booking status – Request

In the Request we expect the following parameters:

Mandatory fields:

- ID Booking

9.2 Booking status – Response

In the Response we expect the following parameters:

Mandatory fields:

- Status

Preferable fields:

- Order Info