

FUNCTIONAL SPECIFICATION FOR INTEGRATION PROJECT

DOCUMENT PREPARED BY INTEGRATION MANAGEMENT - HRDF

» Document Control

DOCUMENT INFORMATION

| | |
|-----------------------|---|
| Service name | OpenDataService |
| Project | OpenDataService Integration Project |
| Document title | Functional Specification for BI - OpenDataService Integration Project |
| Template | Integration Service Interfaces Template V1.0 |
| Author | Integration team |
| Version | 1 |
| Version Date | 2023-05-17 |
| Status | Active |

VERSION DETAILS

| Version | Date | By | Change description |
|---------|------------|------------------|--------------------|
| v1 | 2023-05-17 | Integration team | First draft |



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» Introduction

+ Document Scope

The current document's goal is to specify the OpenDataService service Integration from BI platform for interfaces requirements and integration service to be implemented.

+ Audience

The current document is primarily addressed to the following stakeholders:

- TAQAT Technical Team, to have a better understanding which integration points will be used and how it will be used.
- Integration responsible, to have the full knowledge of the proposed integrations between both systems.

+ Glossary

The table below describes definitions, terms and acronyms used within this document.

| Term | Definition |
|------|---------------------------------|
| SOA | Service Oriented Architecture |
| SOAP | Simple Object Access Protocol |
| REST | Representational State Transfer |
| HTTP | Hyper Text Transfer Protocol |

Table 1 - Glossary (definitions, terms and acronyms)

» Service

+ Scope

The following operations of OpenDataService service will be explained in this document:

- WusoolData

+ Interface

| | |
|---|--|
| Description Service | This service will allow the consumer to get open data. |
| Functional Domain | On-line |
| Service Classification | Connectivity Service |
| Service Owner | Integration Management |
| Version | v1 |
| Last update | 2023-05-17 |
| Service Direction | Inbound – outbound |
| Message Exchange Pattern | Request-response |
| Communication Paradigm | Synchronous |
| Integration Platform / BUS | OSB |
| Service Protocol & Transport | REST |
| Authentication | Basic authentication |

Table 2 – Definition of the service interface Citizen



Operations

❖ WusoolData

Description: This operation will allow the consumer to get Wusool Data.

PATH: /CS/BI/v1/OpenDataServiceREST/WusoolData

Method: POST

- Inputs:

| Field | Is Optional | Type | Parent | Values | Note |
|-----------|-------------|--------|--------|----------|-----------------------|
| startDate | False | string | ----- | yy-MM-dd | max range is 3 months |
| endDate | False | string | ----- | yy-MM-dd | max range is 3 months |

- Request Sample:

```
{
  "startDate": "2023-04-20",
  "endDate": "2023-04-21"
}
```

- Output:

| Field | Is Optional | Type | Parent | Values | Note |
|------------------|-------------|---------|------------------|--------|------|
| wusoolDataOutput | True | complex | ----- | | |
| status | True | string | wusoolDataOutput | | |
| age | True | int | wusoolDataOutput | | |
| eduDegree | True | string | wusoolDataOutput | | |
| hasDisability | True | boolean | wusoolDataOutput | | |
| cityF | True | string | wusoolDataOutput | | |
| regionF | True | string | wusoolDataOutput | | |
| firstTripDate | True | string | wusoolDataOutput | | |
| lastTripDate | True | string | wusoolDataOutput | | |
| registrationDate | True | string | wusoolDataOutput | | |
| result | False | complex | ----- | | |
| succeeded | False | boolean | result | | |
| error | True | complex | result | | |
| common | False | complex | error | | |
| code | False | string | common | | |

| | | | | | |
|---------|-------|---------|--------|--|--|
| message | False | string | common | | |
| detail | True | string | common | | |
| source | True | string | common | | |
| native | True | complex | error | | |
| code | False | string | native | | |
| message | False | string | native | | |
| detail | True | string | native | | |
| source | True | string | native | | |

- Response Sample:

```
{
  "wusoolDataOutput": [
    {
      "status": "مؤهلة",
      "age": 39,
      "hasDisability": false,
      "cityF": "(العضيلية)الأحساء",
      "regionF": "المنطقة الشرقية",
      "firstTripDate": "2018-10-21T19:36:59.000+03:00",
      "lastTripDate": "2018-12-09T17:40:23.000+03:00",
      "registrationDate": "2023-04-20T04:12:44.000+03:00"
    },
    {
      "status": "(فعالة)قامت بأخذ رحلة واحدة على الأقل في البرنامج",
      "age": 23,
      "eduDegree": "دبلوم تقني أو ما يعادله",
      "hasDisability": false,
      "cityF": "مكة المكرمة",
      "regionF": "مكة المكرمة",
      "registrationDate": "2023-04-20T21:10:09.000+03:00"
    }
  ],
  "result": {"succeeded": true}
}
```




Endpoints

| Attributes | Definition |
|------------|---|
| Base | https://intg.taqat.sa:7008/ |
| PATH | /CS/BI/v1/OpenDataServiceREST/WusoolData |

Table 3 Endpoint Table