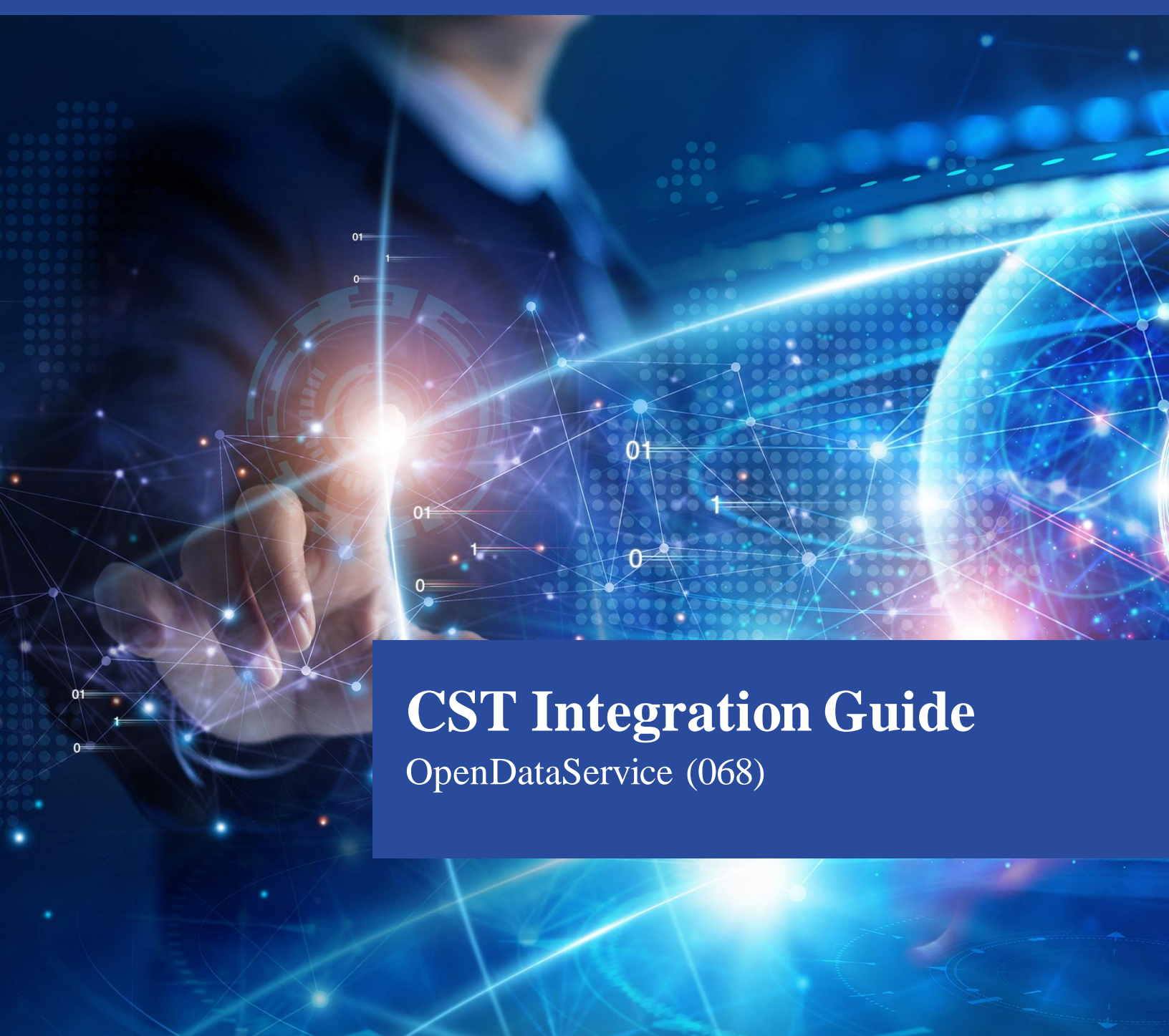




هيئة الاتصالات والفضاء والتقنية  
Communications, Space &  
Technology Commission



# CST Integration Guide

## OpenDataService (068)

**Integration Unit**



## Document Control

Document Name	Integration Guide for OpenDataService API
Abstract	The purpose of this document is to document the API which would be implemented as part of OpenDataService API.
Security Classification	Company Confidential
Reference No	xxxxxx

## Authorization (RACI model)

Responsible	Accountable	Consulted	Informed
Integration Architect	Integration Architect	Program Manager	Core Team

## Revision History

Version	Status	Date dd mm yyyy	Editor	DCR No.	Description of Change
1.0	Draft	17-05-2023	Integration SA	1.0	Creation

## Related Documents

Document #	Description
CST_API_Integration_Guide_OAuthV1.1.pdf	Document to generate Bearer token
CST_Consumer_API_Guide_OpenDataService_1.0	Refer this document for base Url

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## Introduction

This document provides details of REST API which would be implemented as part of the CST project implementation. This document describes the REST API calls.

## OpenDataService (068)

This REST service use to return service provider details

## Service Operations

Operation Name	Description	HTTP Method
GetMeqyasInternetServiceProvider	Service use to return service provider details	POST

## Design Decisions

This section lists the design decisions.

Sr.No	Transaction Name	Design Decision
1	GetMeqyasInternetServiceProvider	Validation for year : <ol style="list-style-type: none"> <li>1. year is mandatory if quarter is provided</li> <li>2. should be positive integer number only</li> <li>3. should be 4 digit only</li> </ol> Mandatory field validation will be handled and corresponding response will be provided to consumer.
2	GetMeqyasInternetServiceProvider	If no data found from DB, ESB will be handle and send to consumer as APP_VALIDATION_ERROR
3	ALL Operations	Any error from ESB will be handle and send to consumer as EAI_INTERNAL_ERROR
4	ALL Operations	Any error from GIS system will be handle and send to consumer as APP_INTERNAL_ERROR

## 1. GetMeqyasInternetServiceProvider

Name of API		OpenDataService		
URL	{base url}/api/rest/v1.0/OpenDataService/GetMeqyasInternetServiceProvider			
Verb	POST			
Type	Synchronous			
Security	<ul style="list-style-type: none"> <li>• APIKey</li> <li>• Bearer token</li> </ul> (Refer CITC_API_Integration_Guide_OAuthTokenV1.1.pdf document to generate Bearer token)			
Description	Service use to return service provider details			
Request				
Format	JSON			
HTTP Headers	Name	Description		Required
	requestId	Timestamp in 'yyyyMMddHHmmsSSS' to track the transaction		Yes
	Accept-Language	EN or AR. Default – AR		No
	Content-type	application/json		No
	x-Gateway-APIKey	Source application to send API Key to access API		Yes
Authorization	Name	Description		Required
	Authorization	Bearer xxxxxxxx		Yes
Body	Nesting	Name	Description	Required
	1	serviceProvider	Value of serviceProvider	No
	1	quarter	Value of quarter	No
	1	year	Value of year <b>Note * : Mandatory if quarter is provided</b>	No
Response				
Format	JSON			

<b>HTTP Status Codes</b>	Success Response Codes 200 - OK			
	Failure Response Codes 400 - Bad Request 401 - Unauthorized 408 - Downtime Exception : Read timed out 500 - Internal Server Error			
<b>Body</b>	<b>Nesting</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>
	1	<b>data</b>	<b>Root tag of data array response structure</b>	Yes
	2	indicatorName	Value of indicatorName	No
	2	serviceProvider	Value of serviceProvider	No
	2	serviceProviderOrder	Value of serviceProviderOrder	No
	2	value	Value of value	No
	2	percentageIncreaseIndicatorValue	Value of percentageIncreaseIndicatorValue	No
	2	quarter	Value of quarter	No
	2	year	Value of year	No
	<b>1</b>	<b>status</b>	<b>Root tag of status response structure</b>	Yes
	2	status	Status of the transaction (true/false)	Yes
	2	errorCode	Errors that might occur in this process	No
	2	errorType	Errors that occur in this process (Functional/ Technical)	No
	2	errorDesc	Error description	No
	2	httpCode	Native reason code from backend or as defined in middleware system	Yes

### JSON Request

POST {base url}/api/rest/v1.0/OpenDataService/GetMeqyasInternetServiceProvider

HTTP Header:

```
requestId : xxxxxx
Accept-Language : EN
Content-type : application/json
x-Gateway-APIKey : xxxxxxxx
Authorization : Bearer xxxxxxxx
```

Request Body :

```
{
  "serviceProvider": "Zain",
  "quarter": "الربع الثاني",
  "year": "2020"
}
```

### JSON Response

HTTP/1.1 200 OK

Content-Type: application/json

```
{
  "data": [
    {
      "indicatorName": "متوسط سرعة التحميل للإنترنت الثابت",
      "serviceProvider": "Zain",
      "serviceProviderOrder": 1,
      "value": 103.25,
      "percentageIncreaseIndicatorValue": "-4.47%",
      "quarter": "الربع الثاني",
      "year": 2020
    },
    {
      "indicatorName": "متوسط سرعة الرفع للإنترنت الثابت",
      "serviceProvider": "Zain",
      "serviceProviderOrder": 3,
      "value": 21.24,
      "percentageIncreaseIndicatorValue": "-2.16%",
      "quarter": "الربع الثاني",
      "year": 2020
    },
    {
      "indicatorName": "متوسط سرعة التحميل للإنترنت المتنقل",
      "serviceProvider": "Zain",
      "serviceProviderOrder": 2,
      "value": 52.92,
      "percentageIncreaseIndicatorValue": "8.53%",
      "quarter": "الربع الثاني",
      "year": 2020
    }
  ]
}
```

```
    },  
    {  
      "indicatorName": "متوسط سرعة الرفع للإنترنت المتنقل",  
      "serviceProvider": "Zain",  
      "serviceProviderOrder": 2,  
      "value": 12.18,  
      "percentageIncreaseIndicatorValue": "-0.17%",  
      "quarter": "الربع الثاني",  
      "year": 2020  
    },  
    {  
      "indicatorName": "متوسط سرعات التحميل للجيل الخامس المتنقل",  
      "serviceProvider": "Zain",  
      "serviceProviderOrder": 2,  
      "value": 348.57,  
      "percentageIncreaseIndicatorValue": "-0.92%",  
      "quarter": "الربع الثاني",  
      "year": 2020  
    }  
  ],  
  "status": {  
    "status": "true",  
    "httpCode": "200"  
  }  
}
```

### JSON Error Response

HTTP/1.1 430 EAI\_VALIDATION\_ERROR

Content-Type: application/json

```
{  
  "data": null,  
  "status": {  
    "status": "false",  
    "errorCode": "EAI_VALIDATION_ERROR",  
    "errorType": "Functional",  
    "errorDesc": "Mandatory field year is missing",  
    "httpCode": "430"  
  }  
}
```



## Error Codes

Operations	Error SourceSystem	http Code	errorCode	errorType	errorDescription
GetMeqyasInternetServiceProvider	EAI	430	EAI_VALIDATION_ERROR	Functional	Mandatory field year is missing
GetMeqyasInternetServiceProvider	EAI	430	EAI_VALIDATION_ERROR	Functional	Invalid year
GetMeqyasInternetServiceProvider	OPENDATASYSTEM (DB)	440	APP_VALIDATION_ERROR	Functional	No data found
All Operations	EAI	500	EAI_INTERNAL_ERROR	Technical	Internal Server Error
All Operations	OPENDATASYSTEM (DB)	500	APP_INTERNAL_ERROR	Technical	Internal Server Error