Integration Guide Document

Deductions

Version: 3.1
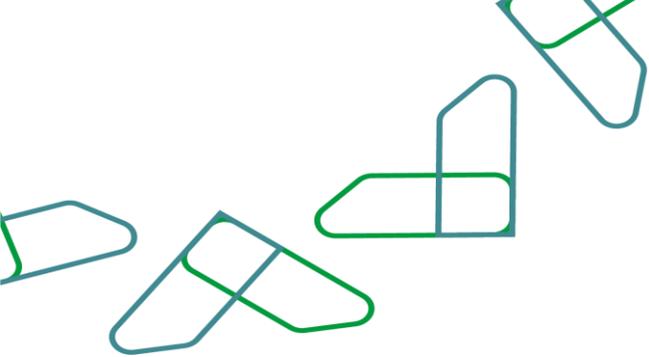
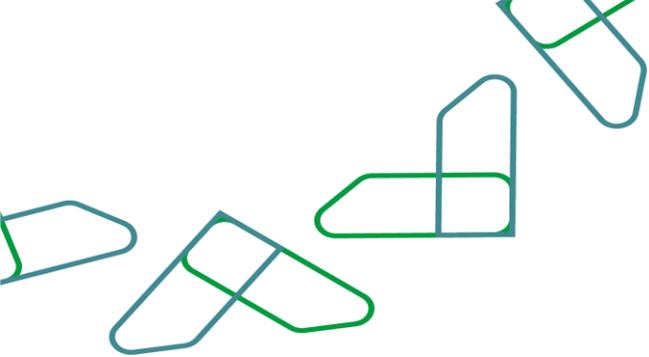*Deductions*
Date: August 1, 2024

Contents

Overview

Etimad's developer platform [https://www.apiportal.etimad.sa] provides many API products, tools, and resources that enable you to complete many functions in your entity.

This document describes what's possible to build with the different tools and APIs that are available on the platform, and how to get the access and information that you need to get started.

We regularly update and improve the experience and products available on the developer platform. These improvements make it important for you to stay informed so you don't miss any updates.

This guide provides an overview of the integration process as well as step-by-step instructions to completing it. Please note that you can also use the instructions provided within the Etimad developer platform [https://www.apiportal.etimad.sa] to guide you through the steps of the integration. You will gain access to the Etimad developer platform after an account is created for you.

There are fees for current API when it returns a success response, the fees depend on agreement with Etimad.

Connectivity will be through GSN.
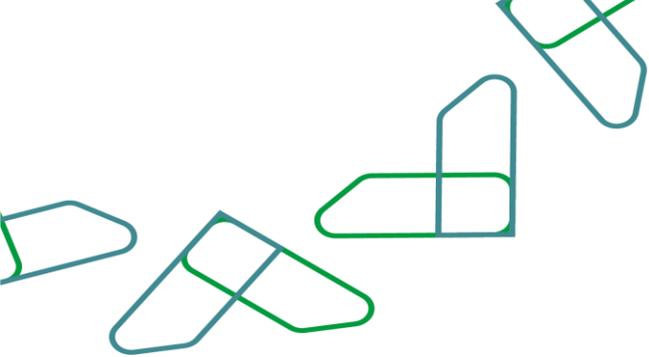
Terminology

Term	Description
NCGR	National Center for Governmental Resource
IG	Integration Guide

Prerequisites & Requirements

All integrations must comply with the Etimad Acceptable Use Policy and API Terms.
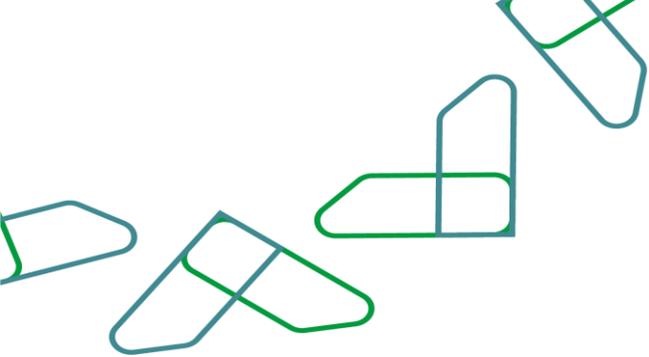
State Diagram & Sequence Diagram
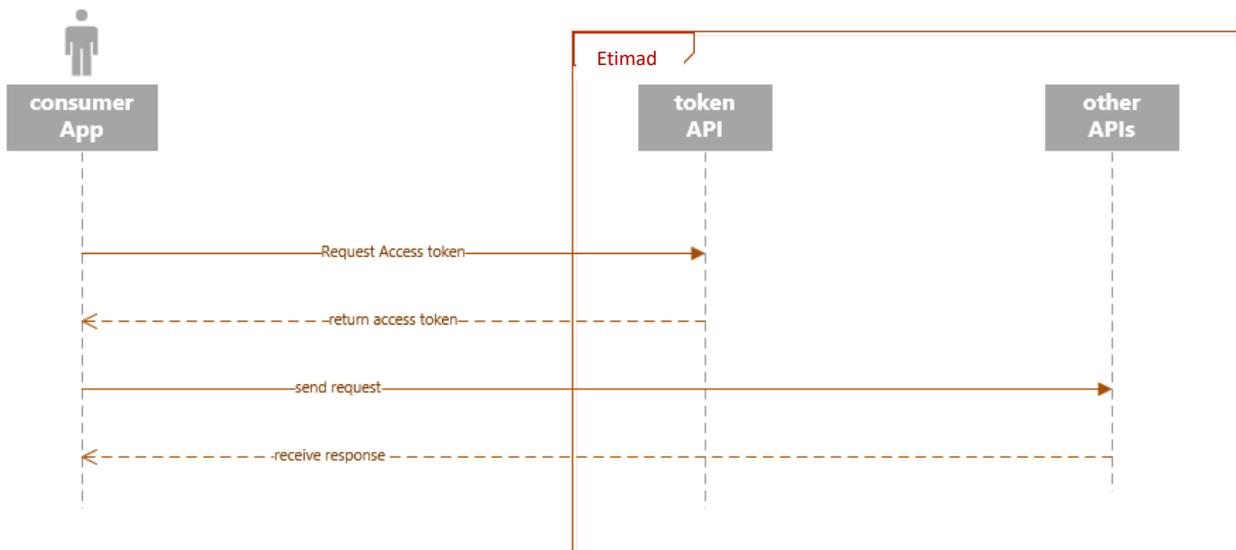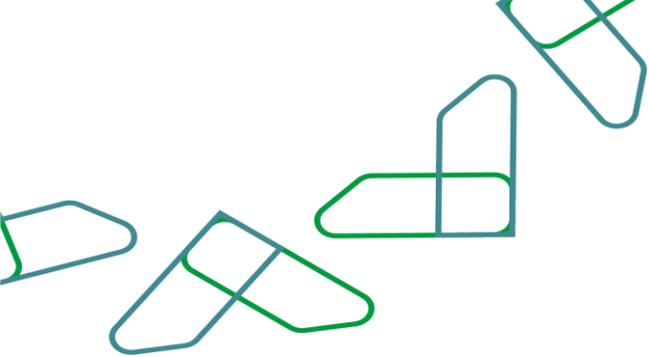
API Definition Card and Service samples

deductions API

API Definition Card	
API Name	deductions
API Description	This API is used to get deduction details of governmental employees of agencies by sending deduction payment Order number.
End Point	GET https://[Server IP]:[port]/gov/v3/deductions

HTTP Request Headers		
Element Name	**Usage**	**Element Value**
Authorization	R	Access token from token API
X_MOF_RqUID	R	Unique, Auto generated, GUID format
X_MOF_ClientID	R	client Id of application of Entity
X_MOF_Agency_Code	R	Deduction Agency Code

Query Parameters				
Element	**Data Type**	**Allowed Value**	**Usage***	**Description**
deductionPO	String (35)		R	Deduction Payment Orders
deductionAgencyCode	String (12)		R	Deduction Agency Code
payrollAgencyCode	String (12)		O	Payroll Agency Code
isValidated	Boolean	true / false default = true	O	Validate is PO matching total deduction amount
offset	Number		R	Offset (default = 1)
limit	Number		R	Limit (default = 100)

HTTP Response Headers	
Element Name	**Element Value**
Content-Type	application/json; charset=UTF-8
X_MOF_RqUID	Client GUID String
X_MOF_TransactionId	Unique Transaction ID String

Response Elements				
Element	**Data Type**	**Allowed Value**	**Usage***	**Description**
Object				
meta	Object		O	Meta Data
totalRecords	Number		R	Total matched records
offset	Number		O	Offset

limit	Number		O	Limit	
data	Object		O	Data	
agencyCode	String (12)		R	Payroll Agency Code	
agencyName	String (256)		R	Payroll Agency Name	
parentAgencyCode	String (12)		O	Parent Agency Code for Payroll Agency Code	
parentAgencyName	String (256)		O	Parent Agency Name for Payroll Agency Name	
payMonth	String (6)	MMYYYY	R	Pay Month	
totalDeductionAmount	Number		R	Total Deduction Amount	
deductionName	String (256)		O	Deduction Name in Arabic	
employees	Array		R	Employees list	
Object			R		
NIN	String (10)		R	National Id, Iqama Number	
employeeNameAr	String (256)		R	Employee Name Arabic	
employeeNameEn	String (256)		R	Employee Name English	
deductionAmount	Number		R	Deduction Amount	

| Error Elements				
Element	Data Type	Allowed Value	Usage*	Description
Object				
errors	Array			
Object			O	
code	String		R	Error Code
detail	String	Refer to Detailed Response Messages	O	Error details
type	String	BusinessError TechnicalError	O	Error Type
link	String		O	documentation URL for help
in	Array		O	
Object			O	
name	String	Refer to Detailed Response Messages	R	Field name caused bad request error
type	String		R	Field type caused bad request error
reason	String	Refer to Detailed Response Messages	O	Reason of validation error

Sample Request

> GET https://[Server]:[port]/gov/v3/deductions?deductionPO='17080041'&'deductionAgencyCode'
='001600008000'&' isValidated=false HTTP/1.1
> Authorization: Bearer ylSkZIjbdWybfs4fUQe9BqP0LH5Z
> X_MOF_RqUID: bc57fb47-0dd2-446e-84f2-27d19eac5f7d
> X_MOF_ClientID: 3FIOG9vSGV4VHo4QzAySVg
> X_MOF_Agency_Code = 001600008000

Sample Success Response

< HTTP/1.1 200 OK
< Content-Type: Application/json
<X_MOF_TransactionId: f275226b23943406b6e1cd0915b01033-2526578-2378897-2
<X_MOF_RqUID: bc57fb47-0dd2-446e-84f2-27d19eac5f7d

```json
{
   "meta": {
        "totalRecords":2,
        "offset":0,
        "limit":2
   },
   "data": {
        "agencyCode":"004001000000",
        "agencyName":"وزارة المالية",
        "parentAgencyCode":"004001000000",
        "parentAgencyName":"وزارة المالية",
        "payMonth":"012021",
        "totalDeductionAmount":5862,
        "deductionName":"حسم مؤسسة التقاعد",
        "employees":[
          {
               "NIN":"1234567890",
               "employeeNameAr":"أحمد محمد أحمد",
               "employeeNameEn":"Ahmed Mohamed Ahmed",
               "deductionAmount":2511
          },
          {
               "NIN":"1234567891",
               "employeeNameAr":"أحمد محمد أحمد",
               "employeeNameEn":"Ahmed Mohamed Ahmed",
               "deductionAmount":3351
          }
        ]
}
```
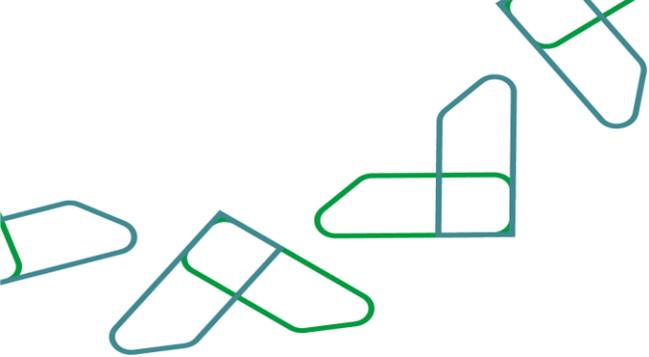
```
< HTTP/1.1 400 Bad Request
< Content-Type: Application/json
<X_MOF_TransactionId: f275226b23943406b6e1cd0915b01033-2526578-2378897-2
<X_MOF_RqUID: bc57fb47-0dd2-446e-84f2-27d19eac5f7d

{
"errors":[
    {
        "code":"E015115",
        "detail":"The Service is available only for payrolls transferred through Sama"
    }
  ]
}
```

Security Options

- OAuth and TLS 1.2 protocol
- Use GSN network.
- client-id & client-secret: to be shared.

Http Response Codes

HTTP status code	Error Description	Correction Action	Retry
200	OK		N
400	Bad Request	Check error message	N
401	Unauthorized	Access token expired or invalid	N
403	Forbidden	Make sure you're permitted to call this service or deductionAgencyCode is correct	N
404	Not Found	The resource which the client is requesting for doesn't exist	N
504	Backend Timeout	Check with service provider	Y
500	Internal System Error	N/A	Y

Detailed Response Messages

Code	detail	name	reason
A001400	Some Required Fields are not founded in your request, Please return to documentations.	N/A	N/A
A002400	Validation format failed. Please return to documentations	deductionAgencyCode and payrollAgencyCode	must be 12 characters long
A001404	No Data Found	N/A	N/A
A101400	The Service is not available for Payment order before year 2018	N/A	N/A
A102400	The Service is available only for Sama Bank Name	N/A	N/A
A103400	Payment order amount in the Etimad is less than the total amount of the deduction in the SARF	N/A	N/A
A001403	Your System is not subscribed at NCGR subscription	N/A	N/A
A001500	Internal Server Error	N/A	N/A
A001504	Backend TimeOut	N/A	N/A