Oracle® Banking APIs OpenID Guide





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Preface

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Purpose

This guide is designed to help acquaint you with the Oracle Banking APIs application. This guide provides answers to specific features and procedures that the user need to be aware of the module to function successfully.

Audience

This document is intended for the following audience:

- Customers
- Partners

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the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following text conventions are used in this document:

Convention	Meaning	
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.	
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.	
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.	

Related Resources

For more information on any related features, refer to the following documents:

Oracle Banking APIs Installation Manuals

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

Table 1 Acronyms and Abbreviations

Abbreviation	Description
OBAPI	Oracle Banking APIs



1

OPENID

OpenID Connect is a simple identity layer on top of the OAuth 2.0 protocol. It enables Clients to verify the identity of the End-User based on the authentication performed by an Authorization Server, as well as to obtain basic profile information about the End-User in an interoperable and REST-like manner.

OBAPI has following configurations which when altered will affect the behavior of OpenID in various ways :

- Discovery/Well-known Endpoint Properties
- DCR (Dynamic Client Registration) Properties
- userinfo Properties

1.1 Discovery/Well-known Endpoint Properties

These properties contain the information about the URLs and certain parameters supported by ASPSP that needs to be displayed to the TPP when requested. The information is displayed through discovery endpoint.

Table: DIGX_FW_CONFIG_ALL_B

Category-Id: OAuthDiscoveryEndpointConfig

Property ID	Description	Property Value
issuer	This parameter represents Issuer's endpoint.	* {{ISSUER'S_URL}} Example:https:// server.example.com
authorization_endpoint	This parameter represents ASPSP's authorization endpoint.	* {{AUTHORIZATION_ENDPOINT_U RL}} Example:https:// server.example.com/ connect/authorize
token_endpoint	This parameter represents ASPSP's token endpoint.	* {{TOKEN_ENDPOINT_URL}} Example:https:// server.example.com/ connect/token
userinfo_endpoint	This parameter represents ASPSP's userinfo endpoint.	* {{USERINFO_ENDPOINT_URL}} Example:https:// server.example.com/ connect/userinfo
jwks_uri	This parameter represents ASPSP's jwks uri.	* {{JWKS_URI}} Example:https:// server.example.com/ jwks.json

Property ID	Description	Property Value
registration_endpoint	This parameter represents ASPSP's Dynamic Client Registration endpoint.	* {{REGISTRATION_ENDPOINT_UR L}} Example:https:// server.example.com/ connect/register
response_types_supported	This parameter represents ASPSP's supported response Types	<pre>code, code token, code id_token, code token id_token</pre>
grant_types_supported	This parameter represents ASPSP's supported grant types.	AUTHORIZATION_CODE, PASSWOR D, CLIENT_CREDENTIALS, REFRE SH_TOKEN
subject_types_supported	This parameter represents ASPSP's supported subject type.	public
<pre>id_token_signing_alg_value s_supported</pre>	This parameter represents ASPSP's supported id_token signing algorithm.	RS256, PS256
request_object_signing_alg_values_supported	This parameter represents ASPSP's supported request object signing algorithm.	RS256, PS256
token_endpoint_auth_method s_supported	This parameter represents ASPSP's supported token endpoint authentication methods.	client_secret_basic
identityDomain	This parameter represents the default configured Identity Domain.	* {{ IDENTITY_DOMAIN_NAME }} Example:UKOPENBANKING
token_endpoint_auth_signin g_alg_values_supported	This parameter represents ASPSP's supported token endpoint auth signing algorithm supported.	RS256,PS256
claims_parameter_supported	This parameter represents whether the 'claims' parameter is supported or not by ASPSP.	Value can be true or false
request_parameter_supporte	This parameter represents whether the 'request' parameter is supported or not by ASPSP.	Value can be true or false
tls_client_certificate_bou nd_access_tokens	This parameter represents whether the TLS client certificate bound access tokens is supported or not by ASPSP.	Value can be true or false
claims_supported	This parameter represents ASPSP's supported claims.	acr,openbanking_intent_id

1.2 DCR (Dynamic Client Registration) Properties

These properties contain the parameters related to Dynamic Client Registration.

Table: DIGX_FW_CONFIG_ALL_B
Category-Id :OAuthDCRConfig



Parameter	Description	Property Value
client_Type	This parameter represents the default configured Client Type.	CONFIDENTIAL_CLIENT
resource_server	This parameter represents the default configured Resource Server.	*{{ RESOURCE_SERVER_NAME } } Example: AIPISP2

1.3 userinfo Properties

These properties represent the mapping of OpenID claims to the corresponding claims available from user details in OBAPI. The parameter is the OpenID claim while it's value is the corresponding claim available from user details in OBAPI.

Any new parameter and its OBAPI counterpart can be configured by adding in below Table and Category-Id.

Table: DIGX_FW_CONFIG_ALL_B

Category-Id: OAuthUserInfoConfig

Property ID	Description	Property Value
sub	This parameter represents Subject.	userName
name	This parameter represents User's name.	userName
given_name	This parameter represents User's given name.	firstName
family_name	This parameter represents User's family name.	lastName
middle_name	This parameter represents User's middle name.	middleName
email	This parameter represents User's email.	emailld
birthdate	This parameter represents User's date of birth.	dateOfBirth
phone_number	This parameter represents User's phone number.	phoneNumber
address	This parameter represents User's address.	address

^{* –} These values are a part of Day one configurations and are not factory shipped. These values are mandatory and if not provided will result in error.



MESSAGE SIGNING AND VALIDATION

OBAPI has message signing and validation configurations, which when altered will affect the response of Open Banking API's.

Authorization Server

Resource Server

2.1 Authorization Server

Table: DIGX_FW_CONFIG_ALL_B

Category-Id: OAuthUserInfoConfig

Property ID	Description	Property Value
oauthHandlerConfig	This parameter is responsible for choosing the required Handler. The Parameter's value is the fully qualified name of the Handler Class.	* {{FULLY_QUALIFIED_HANDLER_ CLASS_NAME}} Example:
	The handler is responsible for implementing methods/ validations that are over and above OpenID methods/ validations. By default DefaultOauthHandler is used. It contains the methods to validate request Object Claims, fetch public key and private key, etc.	com.ofss.digx.app.sms.handlers.oauth.openid.uk.UKOAuthHandler
	UKOAuthHandler extends DefaultOauthHandler and overrides the methods to implement the UK OpenBanking specific validations.	
	Any new Handler to be written for UK OpenBanking should extend UKOAuthHandler and override the methods and the fully qualified name of the Handler should be given against this oauthHandlerConfig parameter.	

^{* –} These values are a part of Day one configurations and are not factory shipped. These values are mandatory and if not provided will result in error.

2.2 Resource Server

Below are the properties required to be updated in the UK Open Banking. Please find the below properties, its purpose and OOTB values.

Table: DIGX_FW_CONFIG_ALL_B

Category-Id: OpenBankingConfig



Property ID

Property Value(Out of the Box) Purpose

MESSAGE_SIGNATURE_HANDLER

This property is responsible for choosing the required Handler. The Parameter's value is the fully qualified name of the Handler Class.

The handler is responsible for implementing methods/ validations of OpenBanking. By default

DefaultMessageSignatureHandler is used. It contains the methods to validate jwt token headers, fetch public key and private key, etc.

Any new Handler to be written for UK OpenBanking should extend DefaultMessageSignatureHandler and override the methods and the fully qualified name of the Handler should be given against this property Id and committed in database.

Example Query:

"Insert into DIGX FW CONFIG_ALL_B (PROP ID, CATEGORY ID, PROP VALUE, FACTORY SHIPPED FLAG, PROP COMMENTS, SUMMARY TEXT, CREATED BY, CREATION DATE, LAST UPDATED BY, LAST UPDATED DATE, OBJECT STATUS, OBJECT VERSION NUMBER) values ('MESSAGE SIGNATURE HAND LER', 'openBankingConfig','com .ofss.digx.appx .openbanking.uk.message. signature .handler.UKMessageSignat ureHandler', 'N', null, 'Message signature handler', 'ofssuser', sysdate, 'ofssuser', sysda te,'A',1);"



Property ID	Property Value(Out of the Box)	Purpose
MESSAGE_ENCRYPTION_FLAG	Υ	Flag to enable or disable the Message Signing and Validation
		Set 'Y' to enable and 'N' to disable message signing and validations.
		Example Query :
		"Insert into
		DIGX FW CONFIG ALL B
		(PROP_ID, CATEGORY_ID,
		PROP_VALUE,
		FACTORY_SHIPPED_FLAG, PRO
		P_COMMENTS,
		SUMMARY_TEXT,
		CREATED_BY,
		CREATION_DATE,
		LAST_UPDATED_BY,
		LAST_UPDATED_DATE,OBJECT STATUS,
		OBJECT VERSION NUMBER)
		values
		('MESSAGE ENCRYPTION FLA
		G','openBankingConfig',
		'Y','N',null,'Open
		Banking payload signing
		and
		validation
		flag','ofssuser',sysdate
		,'ofssuser',sysdate,'A',
		1);"

^{* –} These values are a part of Day one configurations and are not factory shipped. These values are mandatory and if not provided will result in error.



HANDLERS

Handlers for OpenBanking provide extensibility. The following are the two sets of Handlers which can be utilised directly or can be extended to implement custom functionality.

- Authorization Server
- Resource Server

3.1 Authorization Server

The handler on Authorization Server is responsible for implementing methods/validations that are over and above OpenID methods/validations.

- If no configuration is provided, DefaultOauthHandler is used by default. It contains the methods to validate request Object Claims, fetch public key and private key, etc.
- UKOAuthHandler extends DefaultOauthHandler and overrides the methods to implement the UK OpenBanking specific validations.



Any new Handler to be written for UK OpenBanking should extend UKOAuthHandler and override the required methods. Also the fully qualified name of the Handler should be given against this oauthHandlerConfig parameter.

3.2 Resource Server

The handler on Resource Server is responsible for implementing methods/validations of OpenBanking.

• If no configuration is provided, DefaultMessageSignatureHandler is used by default. It contains the methods to validate jwt token headers, fetch public key and private key, etc.



Any new Handler to be written for UK OpenBanking should extend DefaultMessageSignatureHandler and override the required methods. Also the fully qualified name of the Handler should be given against MESSAGE_SIGNATURE_HANDLER property Id and committed in database.



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List of Topics

This user manual is organized as follows:

Table 4-1 List of Topics

Topics	Description
Preface	This topic provides information on the introduction, intended audience, list of topics, and acronyms covered in this guide.
OPENID	This topic provides information about the configurations which will altered affect the behavior of OpenID.
MESSAGE SIGNING AND VALIDATION	This topic provides information about the OBAPI's message signing and validation configurations, which will altered affect the response of Open Banking API's.
HANDLERS	This topic provides information about the sets of Handlers (Authorization Server, Resource Server), and how it could be utilised directly or can be extended to implement custom functionality.



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