

OpenID Guide
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1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

1.2 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

1.3 Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

1.4 Structure

This manual is organized into the following categories:

Preface gives information on the intended audience. It also describes the overall structure of the User Manual.

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

2. 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 :

2.1 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: AUTH_CONFIG

Category-Id : DiscoveryEndpointConfig

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_URL}} 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

Property Id	Description	Property Value
jwt_uri	This parameter represents ASPSP's jwt uri.	* {{JWT_URI}} Example: https://server.example.com/jwt.json
registration_endpoint	This parameter represents ASPSP's Dynamic Client Registration endpoint.	* {{REGISTRATION_ENDPOINT_URL}} Example: https://server.example.com/connect/register
response_types_supported	This parameter represents ASPSP's supported response Types.	code,code token,code id_token,code token id_token
grant_types_supported	This parameter represents ASPSP's supported grant types.	AUTHORIZATION_CODE,PASSWORD,CLIENT_CREDENTIALS,REFRESH_TOKEN
subject_types_supported	This parameter represents ASPSP's supported subject type.	public
id_token_signing_alg_values_supported	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_methods_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

2.2 DCR (Dynamic Client Registration) Properties

These properties contain the parameters related to Dynamic Client Registration.

Table: AUTH_CONFIG

Category-Id : DCRConfig

Parameter	Description	Values
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

2.3 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: AUTH_CONFIG

Category-Id : UserInfoConfig

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.	emailId
birthdate	This parameter represents User's date of birth.	dateOfBirth

Property ID	Description	Property Value
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.

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3. MESSAGE SIGNING AND VALIDATION

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

3.1 Authorization Server

Table: AUTH_CONFIG

Category-Id : CommonConfig

Property ID	Description	Property Value
oauthHandlerConfig	<p>This parameter is responsible for choosing the required Handler. The Parameter's value is the fully qualified name of the Handler Class.</p> <p>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.</p> <p>UKOAuthHandler extends DefaultOauthHandler and overrides the methods to implement the UK OpenBanking specific validations.</p> <p>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.</p>	<p>*</p> <p>{{FULLY_QUALIFIED_HANDLER_CLASS_NAME}}</p> <p>Example:</p> <p>com.ofss.digx.app.auth.handler.openid.uk.UKOAuthHandler</p>

* – 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.

3.2 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	-----	<p>This property is responsible for choosing the required Handler. The Parameter's value is the fully qualified name of the Handler Class.</p> <p>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.</p> <p>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.</p> <p>Example Query :</p> <pre> "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_HANDLER','openBankingConfig','com.ofss.digx.appx.openBanking.uk.message.signature.handler.UKMessageSignatureHandler','N',null,'Message signature handler','ofssuser',sysdate,'ofssuser',sysdate,'A',1);" </pre>

Property Id	Property Value(Out of the Box)	Purpose
MESSAGE_ENCRYPTION_FLAG	Y	<p>Flag to enable or disable the Message Signing and Validation.</p> <p>Set 'Y' to enable and 'N' to disable message signing and validations.</p> <p>Example Query :</p> <pre>"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_ENCRYPTION_FLAG','openBankingConfig','Y','N',null,'Open Banking payload signing and validation flag','ofssuser',sysdate,'ofssuser',sysdate,'A',1);"</pre>

4. 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.

4.1 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.

Note : 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.

4.2 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.

NOTE :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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