

User Interface Guide
Oracle Banking Digital Experience
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User Interface Guide

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1. Preface

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.

1.5 Related Information Sources

For more information on Oracle Banking APIs Patchset Release 21.1.1.0.0, refer to the following documents:

- Oracle Banking APIs Installation Manuals

2. Pre-requisite

OHS software along with instance should be available for use.

For further detailed configuration of Oracle HTTP Server, please refer to <https://docs.oracle.com/middleware/12213/webtier/administer-ohs/toc.htm>

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3. User Interface Build

The current GUI build is based on Grunt.

Grunt is a JavaScript Task Runner - an automation tool for performing repetitive tasks like minification, compilation, unit testing, linting etc.

The tasks performed during a typical GUI build are:

- Pre Build checks (For some development rules)
- ESLint for the JS files.
- SCSS compilation to CSS
- CSS optimization
- HTML validation
- JS minification
- Require JS optimization to pack all the dependencies of a component into single file.
- Generate integrity for all component files.
- Cache Busting for resources.

Creating component artifacts for metadata generated by UI Workbench:

Follow steps below to generate the artifacts from metadata

- First make sure that NodeJS is installed on the machine
- Make sure that swagger documentation (JSON) is hosted and available on some server.
- Place **obapi-ui-workbench-code-generator** and **obapi-ui-workbench-core** as sibling directory to **channel**, thus making all three directories in the same level.
- Open a terminal inside **obapi-ui-workbench-core** directory and run following commands
 - **npm install**
 - **npm run-script build**
- In **obapi-ui-workbench-code-generator** directory open the package.json file and remove dependency of **@obapi/uiworkbench-core**
- In **obapi-ui-workbench-code-generator** directory open the **swagger/mapping.json** file and replace all the instances that includes **http://mum00boa.in.oracle.com:18777/swagger/json** to locally available **openapi.json** URL.
- Inside **com.ofss.digx.utils.uiworkbench** directory and run following commands
 - **npm install**
 - **npm link ../obapi-ui-workbench-core**
- In **channel/_build** directory open the package.json file and remove dependency of

@obapi/obapi-ui-workbench-code-generator

- Inside **channel/_build** directory and run following commands
 - **npm install**
 - **npm link ../../obapi-ui-workbench-code-generator**

Running UI Build:

Follow steps below to run UI Build:

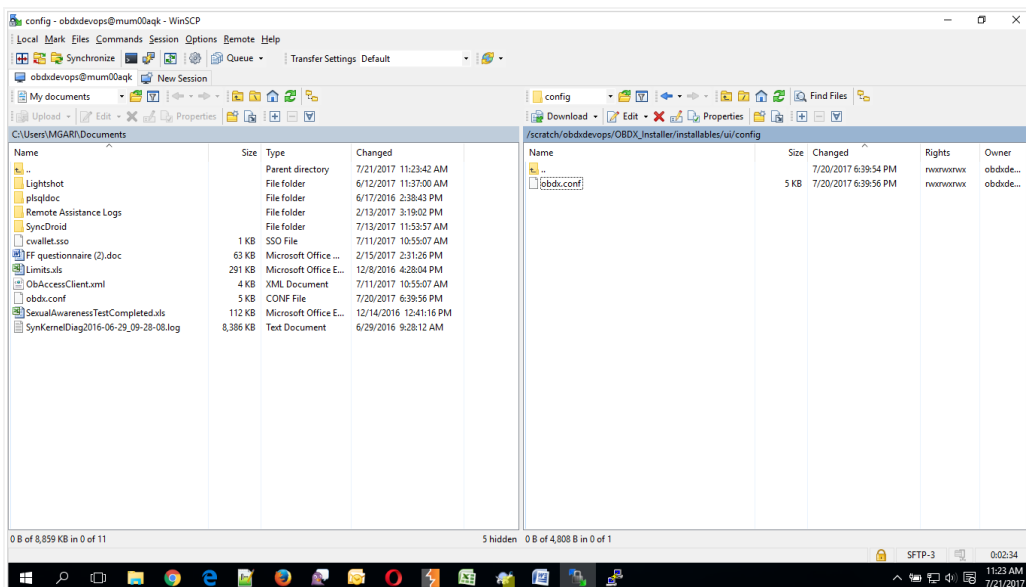
- First make sure that NodeJS is installed on the machine and grunt is available in global scope. Make sure to refer **_build/package.json** to check the apt NodeJS version for the OBAPI Release.
- Now to run the build , below scripts needs to be run:-
 - **npm run pre-build**
 - **npm run code-generation**
 - **npm run lint**
 - **npm run build**
 - **npm run post-build**

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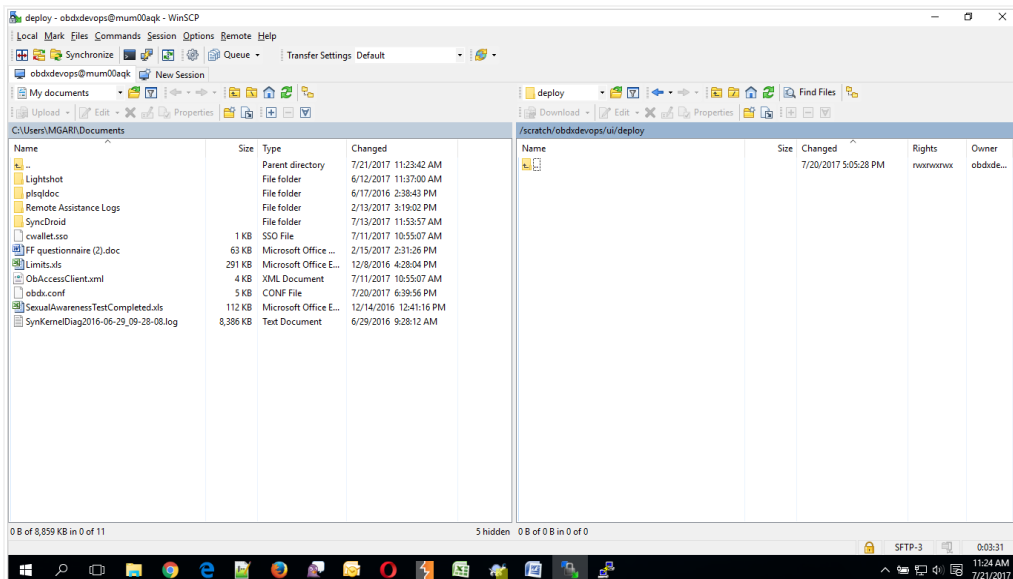
4. UI deployment

Below steps needs to be performed for UI deployment on OHS server.

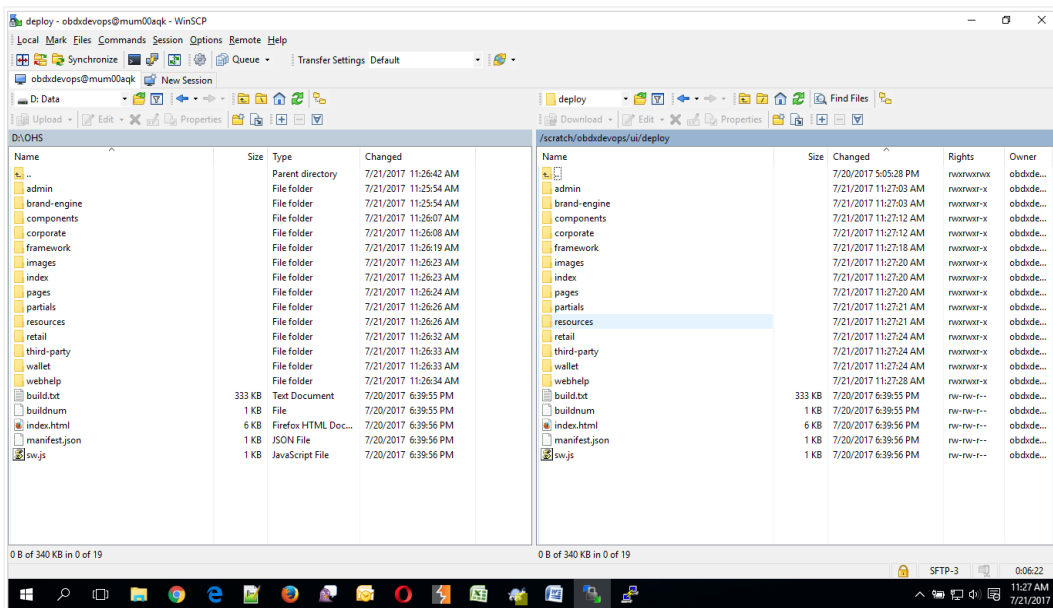
Copy the obapi.conf from OBAPI_Installer/installables/ui/config directory into the instance config directory (where httpd.conf is present). httpd.conf file is present at **{DOMAIN_HOME}/config/fmwconfig/components/OHS/{componentName}**



- Create a directory where obapi UI files would be deployed on OHS server.



- Copy all files / directories from OBAPI_Installer/installables/ui/deploy into newly created directory.



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5. Configuration to run UI on Oracle HTTP Server

Make sure following OHS modules must be loaded

- mod_rewrite.so
- mod_deflate.so
- mod_expires.so
- mod_mime.so
- mod_headers.so

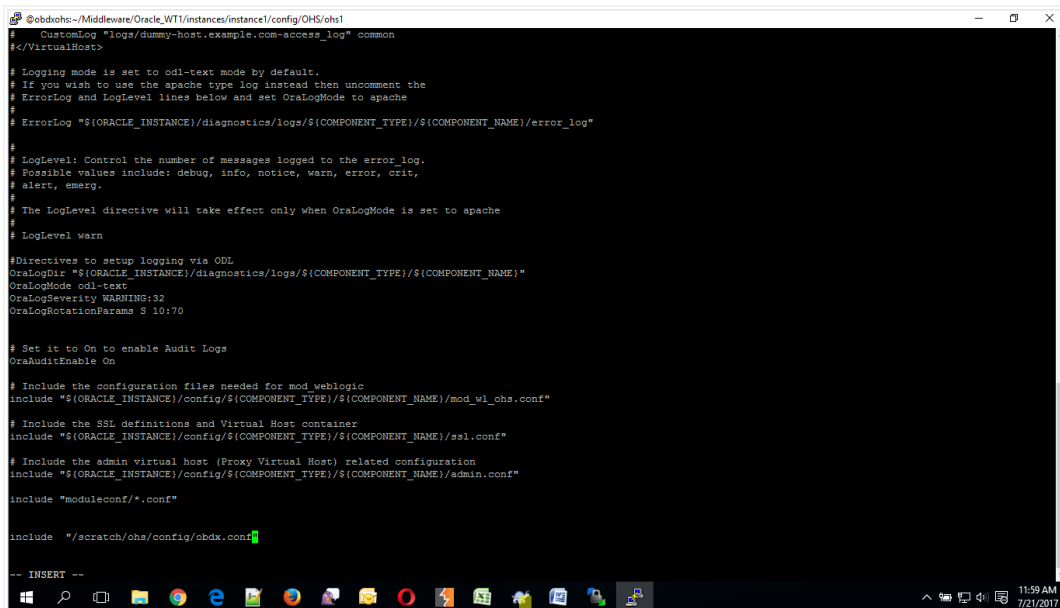
Following are the changes needed to be done in the obapi.conf file and place this file in same folder where httpd.conf file exists.

1. Replace the <CHANNEL_PATH> (all occurrences) with the newly created directory (from previous UI deployment step).
2. Configuration for Content Security Policy, refer to the below document
Oracle Banking Digital Experience Security Guide

Include the obapi.conf into httpd.conf using below configuration

```
include "obapi.conf" (needs to be added in httpd.conf)
```

Read obapi.conf for inline documentation.



```
@obdohs:~/Middleware/Oracle_WT1/instances/instance1/config/OHS/ohs1
# Customizing "logs/dummy-host.example.com-access_log" common
# VirtualHost
# Logging mode is set to odl-text mode by default.
# If you wish to use the apache type log instead then uncomment the
# ErrorLog and LogLevel lines below and set OraLogMode to apache
#
# ErrorLog "${ORACLE_INSTANCE}/diagnostics/logs/${COMPONENT_TYPE}/${COMPONENT_NAME}/error_log"
#
# LogLevel: Control the number of messages logged to the error_log.
# Possible values include: debug, info, notice, warn, error, crit,
# alert, emerg.
#
# The LogLevel directive will take effect only when OraLogMode is set to apache
#
# LogLevel warn

#Directives to setup logging via ODL
OraLogDir "${ORACLE_INSTANCE}/diagnostics/logs/${COMPONENT_TYPE}/${COMPONENT_NAME}"
OraLogMode odl-text
OraLogSeverity WARNING:32
OraLogRotationParams S 10:70

# Set it to On to enable Audit Logs
OraAuditEnable On

# Include the configuration files needed for mod_wl_ohs
include "${ORACLE_INSTANCE}/config/${COMPONENT_TYPE}/${COMPONENT_NAME}/mod_wl_ohs.conf"

# Include the SSL definitions and Virtual Host container
include "${ORACLE_INSTANCE}/config/${COMPONENT_TYPE}/${COMPONENT_NAME}/ssl.conf"

# Include the admin virtual host (Proxy Virtual Host) related configuration
include "${ORACLE_INSTANCE}/config/${COMPONENT_TYPE}/${COMPONENT_NAME}/admin.conf"

include "moduleconf/*.conf"

include "/scratch/ohs/config/obdx.conf"

-- INSERT --
```

Following are the changes need to be done in mod_wl_ohs.conf which is present at **{DOMAIN_HOME}/config/fmwconfig/components/OHS/{componentName}**

Copy below configuration into mod_wl_ohs.conf

```
<IfModule weblogic_module>
    WebLogicHost HOSTNAME
    WebLogicPort MANAGE_SERVER_PORT
    Debug ON
    WLLogFile DIR/FILENAEME
    MatchExpression /digx/*
    MatchExpression /digx-auth/*
    MatchExpression /digx-social/*
</IfModule>
```

Configure below properties

- a. HOSTNAME – Weblogic server hostname (where OBAPI weblogic domain is configured)
- b. MANAGE_SERVER_PORT – Weblogic manage server port (where OBAPI application is deployed)
- c. DIR / FILENAME – Path where log file should be generated

Sample configuration (for reference purpose only)

```
<IfModule weblogic_module>
    WebLogicHost wls_server1
    WebLogicPort 7003
    Debug ON
    WLLogFile /tmp/weblogic_obp.log
    MatchExpression /digx/*
</IfModule>
```

```

@obdkohs:~/Middleware/Oracle_WT1/instances/instance1/config/OHS/ohs1
drwx----- 1 devops devops 4096 Nov 10 2016 fastcgi
drwx----- 1 devops devops 4096 Nov 10 2016 fcgi-bin
drwx----- 1 devops devops 4096 Nov 10 2016 htdocs
-rw-rw-r-- 1 devops devops 38092 Jul 21 06:29 httpd.conf
-rw----- 1 devops devops 30047 Nov 10 2016 httpd.conf.ORIG
drwxr-x-- 1 devops devops 4096 Nov 10 2016 icons
drwx----- 1 devops devops 4096 Nov 10 2016 keystores
-rw----- 1 devops devops 12959 Nov 10 2016 magic
drwx----- 1 devops devops 4096 Nov 10 2016 man
drwx----- 1 devops devops 12268 Nov 10 2016 manual
-rw----- 1 devops devops 15020 Nov 10 2016 mime.types
drwx----- 1 devops devops 4096 Nov 10 2016 mod_plsql
-rw----- 1 devops devops 617 Jul 20 10:45 mod_wl_ohs.conf
drwx----- 1 devops devops 4096 Nov 10 2016 modwlcms
drwx----- 1 devops devops 4096 Nov 10 2016 proxy-wallet
-rw----- 1 devops devops 2986 Nov 10 2016 ssl.conf
drwxrwxr-x 1 devops devops 4096 Nov 11 2016 webgate
-rw-rw-r-- 1 devops devops 2121 Nov 11 2016 webgate.conf
[devops@obdkohs ohs1]$
[devops@obdkohs ohs1]$
[devops@obdkohs ohs1]$
[devops@obdkohs ohs1]$ vi mod_wl_ohs.conf
[devops@obdkohs ohs1]$ cat mod_wl_ohs.conf
# NOTE : This is a template to configure mod_weblogic.

LoadModule weblogic_module      "${ORACLE_HOME}/ohs/modules/mod_wl_ohs.so"

# This empty block is needed to save mod_wl related configuration from EM to this file when changes are made at the Base Virtual Host Level
<IfModule weblogic_module>
    WebLogicHost mmm00aak
    WebLogicPort 7003
    Debug ON
    WLogFile /tmp/weblogic.log
    MatchExpression /diq/*
</IfModule>

# <Location /weblogic>
#     SetHandler weblogic-handler
#     PathTrim /weblogic
#     ErrorPage http://WEBLOGIC_HOME:WEBLOGIC_PORT/
# </Location>

[devops@obdkohs ohs1]$

```

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6. Oracle HTTP Server Commands

6.1 Starting Oracle HTTP Server Instances from the Command Line

You can start up Oracle HTTP Server instances from the command line via a script.

1. Ensure that Node Manager is running.
2. Enter the following command:

```
Linux or UNIX: $DOMAIN_HOME/bin/startComponent.sh componentName
```

```
Windows: %DOMAIN_HOME%\bin\startComponent.cmd componentName
```

For example:

```
$DOMAIN_HOME/bin/startComponent.sh ohs1
```

The startComponent script contacts the Node Manager and runs the nmStart() command.

When prompted, enter your Node Manager password. The system responds with these messages:

```
Successfully started server componentName...
```

```
Successfully disconnected from Node Manager...
```

```
Exiting WebLogic Scripting Tool.
```

6.2 Stopping Oracle HTTP Server Instances from the Command Line

You can stop Oracle HTTP Server instances from the command line via a script.

Enter the following command:

```
Linux or UNIX: $DOMAIN_HOME/bin/stopComponent.sh componentName
```

```
Windows: %DOMAIN_HOME%\bin\stopComponent.cmd componentName
```

For example:

```
$DOMAIN_HOME/bin/stopComponent.sh ohs1
```

This command invokes WLST and executes the nmKill() command.
The stopComponent command will not function if the Node Manager is not running.

For more commands refer the following URL:

<https://docs.oracle.com/middleware/1221/webtier/administer-ohs/getstart.htm>

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7. Configuring User Interface

All the UI configurations are available in config.js while which is present under the <CHANNEL_PATH>\framework\js\configurations directory. JavaScript object for the configuration is declare by the name “configuration”. Application freeze this object so its value cannot be change in running memory.

Category of the configuration:

i18n: All the internalization specific configuration mentioned in this. Currently this category have list of rtl locales

```
i18n: {
    rtlLocales: ["ar", "he", "ku", "fa", "ur", "dv", "ha", "ps", "yi"]
}
```

Sharding: Domain sharding is a technique used to increase the amount of simultaneously downloaded resources for a particular website by using multiple domains. This allows websites to be delivered **faster** to users as they do not have to wait for the previous set of resources to be downloaded before beginning the next set. Implementer can introduce 3 additional domains for the UI

1. **apiBaseURL:** If the HTTP server and the application server are on same host, the property is set as "" otherwise set to host name and port of the application server. **imageResourcePath:** The base path from which the image resources are to be fetched. It can also be a relative path pointing to the same domain the page is running on or a fully qualified path to different server on which images are hosted
2. **webHelpContentURL:** Domain where the web help content is hosted.

```
sharding: {
    imageResourcePath: "./images",
    apiBaseURL: "",
    webHelpContentURL : ""
}
```

Service Worker: A service worker is a script that your browser runs in the background, separate from a web page, opening the door to features that don't need a web page or user interaction. The core feature discussed in this tutorial is the ability to intercept and handle network requests, including programmatically managing a cache of responses. Implementer can enable or disable it by changing this property.

```
serviceWorker: {
```

```
enabled: true
```

```
}
```

Authentication: OBAPI product ships with two type of authentication methods:

1. OAM Authentication
2. Non OAM Authentication (OBAPIAuthenticator)

Configuring OAM Authentication set type as OAM and also provide the provider URL of OAM in providerURL property.

For Non OAM set type as OBAPIAuthenticator.

In the application, setting secure and public page is required. For this two properties are exposed as pages.securePage and pages.publicPage. As name suggest pages.securePage have the pathname of secure page and pages.publicPage have the pathname of public/unsecure page.

```
authentication: {
  type: "OBDXAuthenticator",
  providerURL: "",
  pages: {
    securePage: "home.html",
    publicPage: "index.html"
  }
}
```

Third Party API's: Some of the application module required integration with third party provider like facebook, linkedin, google etc. So in this category we maintained all the sdk url, api keys and provider url of third party api's

```
thirdPartyAPIs: {
  facebook: {
    url: "",
    sdkURL: ""
```



```

    apiKey: ""

  },

  linkedin: {

    sdkURL: "",

    apiKey: ""

  },

  googleMap: {

    url: "",

    sdkURL: "",

    apiKey: ""

  }

}

```

Google APIs: OBDX UI uses Google APIs for ATM/Branch Locator. Below list of APIs required

1. Distance Matrix API
2. Geocoding API
3. Geolocation API
4. Maps JavaScript API
5. Places API
6. Directions API

Below steps needs to be followed to procure the APIs

1. Login with a Google account and go to Developer's console (APIs and services).
2. Select Credentials from left Menu.
3. For new API Key - Pop window will open and it will give the option to Restrict Key.
4. For already created API - From Credentials page in API Key section select the edit option to edit API Key, on edit API Key screen select required API under API restrictions.

Oracle Jet: OBDX UI used Oracle Jet as the library. Oracle Jet also exposed over the CDN (content delivery network). So implementer has the choice to Oracle Jet as local deployment or from CDN. In `hostedAt` property supports two values “`cdn`” or “`local`”. `baseUrl` property used for base url of the Oracle Jet and `version` property used for the used Oracle Jet Version.

```
oracleJet: {  
  
  hostedAt: "cdn",  
  
  baseUrl: "https://mumaa012.in.oracle.com/jet",  
  
  version: "7.1.0"  
  
}
```

API Catalogue: This category used for several context root available in OBDX API's and their default versions.

```
apiCatalogue: {  
  
  base: {  
  
    contextRoot: "digx",  
  
    defaultVersion: "v1"  
  
  },  
  
  extended: {  
  
    contextRoot: "digx/ext",  
  
    defaultVersion: "v1"  
  
  },  
  
  social: {  
  
    contextRoot: "digx-social",  
  
    defaultVersion: "v1"  
  
  },  
  
  "digx-auth": {  
  
    contextRoot: "digx-auth/ext",  
  
  }  
  
}
```

```

    defaultVersion: "v1"

  },

  "digx-auth-extended": {

    contextRoot: "digx-auth",

    defaultVersion: "v1"

  }

}

```

System Configuration: This category of configuration is used for system level properties. Brief description of properties are below:

componentAccessControlEnabled: Component access check(through role transaction mapping) is enabled or not. Depending of this property menu or link will filtered.

requestThrottleSeconds: OBDX UI can cached service responses and it also distribute one API response to several caller. For example if 3 widgets calling same API, in this case application fire only one API and distribute its response to all the callers. requestThrottleSeconds property used for caching time of the response. Unit is in second. It means if you set requestThrottleSeconds as 5(second) it means if application fire same API within 5 second application return the same response which it fire earlier.

defaultEntity: Default entity if entity cannot be derived.

sslEnabled: SSL is enabled or not.

loggingLevel: Logging level of OBDX UI.

buildTimestamp: Time stamp of the build.

```

system: {

  componentAccessControlEnabled: true,

  requestThrottleSeconds: 5,

  defaultEntity: "",

  sslEnabled: true,

  loggingLevel: "LEVEL_ERROR",

  buildTimestamp: BuildFingerPrint.timeStamp

}

```

Analytics: This category of configuration is used for enabling or disabling third party and OBDX analytics in application.

```
analytics: {  
  
  thirdPartyAnalytics: {  
  
    enabled: false,  
  
    analyticsProvider: ""  
  
  },  
  
  obdxAnalytics: {  
  
    enabled: false,  
  
    eventsThreshold: 5,  
  
    inactivityTimeout: 10 * 60 * 1000  
  
  }  
  
}
```

Development Configuration: This category of configuration is used during development phase. This should be disabled (development.enabled set as false) in the production mode. In this category we also have property for enabling accessibility checks during run time.

```
development: {  
  
  enabled: false,  
  
  checkAccessibility: false,  
  
  axeUrl: "https://cdnjs.cloudflare.com/ajax/libs/axe-core/3.3.2/axe.min.js"  
  
}
```

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8. Language Pack

Out of box OBAPI comes with two language i.e. French and Arabic. Language pack of these languages are shipped along with the product. Please note since translation is a continuous process so some or the translation can be missing in the language pack which will be updated in next patch set release. The resource bundle key which translation is missing, you find the English string in place of the actual translated string.

8.1 Adding new Language

Implementer can add new language in the application by adding new row in **digx_fw_locale** table. This table has two columns locale code the description which comes in the drop down.

Example: For Arabic and French implementer can run following script respectively on OBAPI Schema

```
insert into digx_fw_locale (code, description) values ('ar', 'Arabic');  
  
insert into digx_fw_locale (code, description) values ('fr', 'Français');
```

8.2 Deployment of the Language pack

Language pack can be classified in the following types

Database Scripts:

1. Login to OBAPI Schema
2. Execute following SQL files :

```
OBDX_<VERSION>_TRANSLATION_PACK\<LOCALE>\seed\digx_fw_error_messages.sql  
OBDX_<VERSION>_TRANSLATION_PACK\<LOCALE>\seed\digx_fw_info_messages.sql
```

3. Commit the changes

```
commit;
```

Weblogic Configuration:

1. Copy all files/ directories from
OBAPI_<VERSION>_TRANSLATION_PACK\<LOCALE>\config to \${OBAPI_HOME}\config
hosted on Weblogic Server

Note: The path for \${OBAPI_HOME}\config can be found under Managed Server classpath which is accessible via Weblogic Administration

UI Configuration:

1. Copy complete
OBAPI_<VERSION>_TRANSLATION_PACK\<LOCALE>\channel\resources\nls\<LOCALE>
> directory to <CHANNEL_PATH>/resources/nls/
2. Create a new <LOCALE> directory in <CHANNEL_PATH>/partials/help
3. Copy all existing files from <CHANNEL_PATH>/partials/help to
<CHANNEL_PATH>/partials/help/<LOCALE>
4. Override all help files from
OBAPI_<VERSION>_TRANSLATION_PACK\<LOCALE>\channel\partials\help\<LOCALE>
to <CHANNEL_PATH>/partials/help/<LOCALE>

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9. Configuring Different URL's on the Basis of Enterprise roles

To enable URL separation based on enterprise roles using custom header name and value, the following queries needs to be executed in **DIGX_FW_CONFIG_ALL_B** table

```
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
('IS_LOGIN_SEPARATION_ENABLED','SecurityConstants','true','N',null,'Is
login separation enabled','ofssuser',sysdate,'ofssuser',sysdate,'Y',1);
```

This query enables the URL separation mechanism. By default the URL separation mechanism is not enabled.

```
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
('LOGIN_HEADER_NAME','SecurityConstants',<HEADER_NAME>,'Y',null,'Header
name for login
separation','ofssuser',sysdate,'ofssuser',sysdate,'Y',1);
```

This query is used to provide entry for the custom header name.

```
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
(<HEADER_NAME>,'SecurityConstants',<HEADER_VALUE>,'Y',null,'login
separation header name and value
pair','ofssuser',sysdate,'ofssuser',sysdate,'Y',1);
```

This query is used for mapping the custom header name with its corresponding value.

```

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
(<HEADER_VALUE>, 'SecurityConstants', <ENTERPRISE_ROLE>, 'Y', null, 'Enables
login separation for given enterprise
role', 'ofssuser', sysdate, 'ofssuser', sysdate, 'Y', 1);

```

This query is used for mapping the custom header value with the enterprise role for which the URL separation has to be achieved.

In the above queries, <HEADER_NAME> field denotes the custom header name, <HEADER_VALUE> denotes the custom header value, and <ENTERPRISE_ROLE> field denotes the enterprise role. These fields need to be replaced with own custom values before executing the queries.

OHS Configuration:

To support it OHS need to send an additional header to Weblogic server. To enable this Implementer need to configure a new port and create a virtual host where that custom header is added in the request. Sample snippet is below

```

Listen PORT_NO

<VirtualHost *:PORT_NO >
RequestHeader add <HEADER_NAME> "<HEADER_VALUE> "
<Location /digx>
SetHandler weblogic-handler
WebLogicCluster WEBLOGIC_HOST:WEBLOGIC_PORT
</Location>
</VirtualHost>

```

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