Development Workbench Service XML Development
Oracle FLEXCUBE Investor Servicing
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# 1. Preface

This document describes the webservice development using Oracle FLEXCUBE Development Workbench for Investor Servicing.

# 1.1 Audience

This document is intended for FLEXCUBE Application developers/users that use Development Workbench to develop various FLEXCUBE components.

To Use this manual, you need conceptual and working knowledge of the below:

Proficiency	Resources
FLEXCUBE Functional Architecture	Training programs from Oracle Financial Software Services.
FLEXCUBE Technical Architecture	Training programs from Oracle Financial Software Services.
FLEXCUBE Object Naming conventions	Development Overview Guide
Working knowledge of Web based applications	Self-Acquired
Working knowledge of Oracle Database	Oracle Documentations
Working knowledge of PLSQL developer	Respective vendor documents
Working knowledge of PLSQL & SQL Language	Self-Acquired
Working knowledge of XML files	Self-Acquired

# 2. Introduction

This Document explains the steps to create/Modification of Service xml and generating webservice artifacts for building ear file using the Oracle FLEXCUBE Development Workbench for Investor Servicing.

# 3. Service XML

Oracle FLEXCUBE Development Workbench provides the developer with a user friendly console for defining a gateway service of FCIS.

One Service XML corresponds to one Gateway Service. All the Function Ids which are part of the particular service would be captured in the Service XML along with the Operation details.

ODT assist developers in developing the webservice with the capability of generating the Following artifacts for building ear file.

Files	Description	
<service name="">Src\*Impl.java</service>	IMPL files for service	
<service name="">WSDL\*.wsdl</service>	WSDL files for service	
<service name="">Config\*.xml</service>	Config files	
<service name="">XSD\*.xsd</service>	Service specific xsd's	
<service name="">Common\*.xsd's</service>	Common XSD's (call forms ) part	
	of service	
<pre><service name="">\<service name="">\META-</service></service></pre>	Config XML's for building the	
INF\application.xml	Web service	
<pre><service name="">\<service name="">\META-</service></service></pre>		
INF\MANIFEST.MF		
<pre><service name="">\commons-</service></pre>	Utility Jar for building the web	
codec-1.2.jar	service	
<pre><service name="">\<service name="">\wscommon.jar</service></service></pre>	Utility Jar for building the web	
	service	
Sample Ant file	For building service ear file	

**Note:** Non-extensibility function Id's operations don't allow add/modify any existing service; it will allows delete operation only.

# 3.1 Process Steps

Login to the Oracle FLEXCUBE ODT using the credentials maintained (refer 02-ODT Administration.docx for creating users)

Map the session to the release and environment as required (Refer 03-ODT Getting Started.docx for detailed explanation)

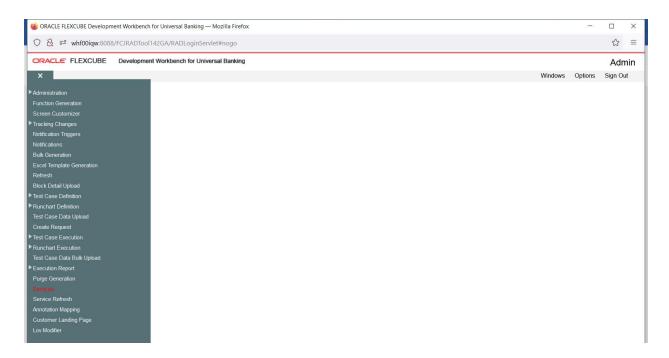


Fig: ODT Screen Showing Services Option

Click on Service node in the browser tree found in the Landing page of ODT.

Services window gets launched, while creating a new Service in ODT, below information needs to be provided in the Header section.

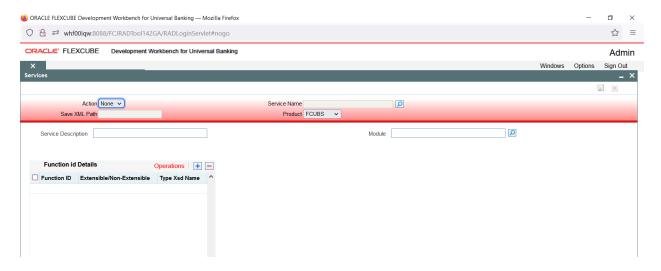


Fig: Services Screen

While loading an Existing Service in ODT

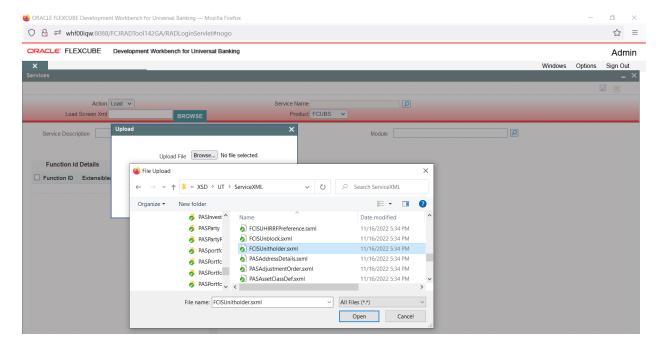


Fig: Loading Service XML

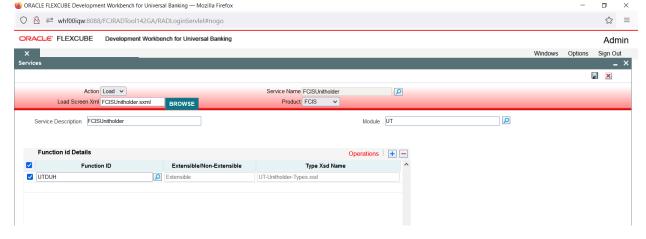


Fig: Screen after Loading Service XML.

The Header portion of the Function Generation screens consists of the following fields:

#### **Action**

New and Load options are provided for this field. For a new Service development, select the action as 'New'. If the action is load then corresponding Service xml has to be loaded using browser option in Save Xml Path; all the header information will get populated.

#### **Service Name**

If the action is selected as new, Service name has to be selected from service LOV.(Service LOV will fetch values from GWTM\_SERVICES\_MASTER For new service, service name needs to be added in GWTM\_SERVICES\_MASTER of business schema)

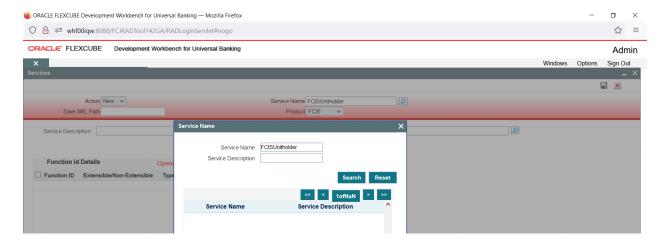


Fig: Lov to populate Service name.

# **Service Description**

On Select of service name service description will be populated in service description field.

#### Module

If the action is selected as New, Module has to be selected from Module LOV. (Module LOV will fetch values from SMTB MODULES of Business schema).

Module Name need not always be from the LOV. Note that Artifacts would be generated based on the Module Name specified. Hence provide source Folder module names (Example: Core for CS) in this field

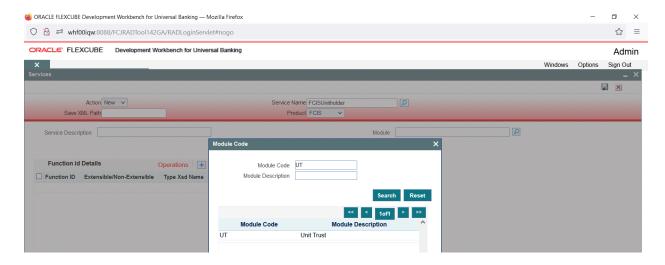


Fig: Lov to populate Module Code.

#### Save Xml Path

If the action is New, save xml path is optional. If provided, then the generated units will be saved in the path mentioned.

Note that the value in the Save Xml Path will be used only if the Save Format is Client Path and if the User has given "CURRENT DIRECTORY" in the User Preferences Work Directory.

The label description of the field will change depending on the action .If the action is load, ODT attaches a Browse button to it so that user can browse the Service xml and load it.

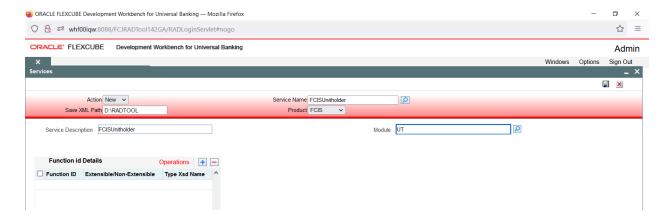


Fig: Screen to Show save Xml Path.

#### **Function Id Details:**

Developer can attach the Function IDs which are part of this service.

He can also remove the same from service if not required.

#### **Function Id**

Select the function id from function id LOV for adding the function id for that service Function Id LOV will populate data from SMTB\_MENU.

Make sure that FC\_FUNCTION\_ID values are selected for Function Id so that physical radxml file for the same function Id exists.

Example: Select UTDUH and not UTGUH

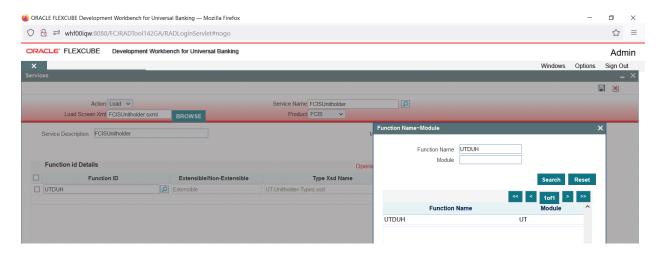


Fig: Lov to populate Function Id.

#### Extensible/Non-Extensible:

On Select of Function id, this field value would be populated

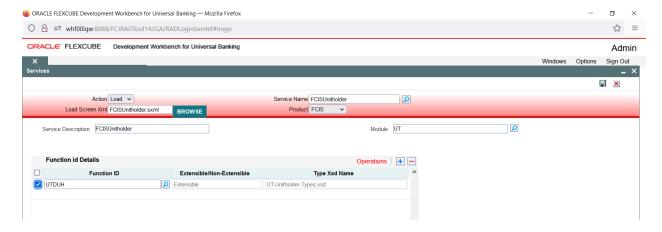


Fig: Screen to populate Function Id Value.

# Type Xsd Name:

Type XSD name would be defaulted along with Operations for an Extensible Function Id. For Non Extensible Function Id, Type XSD name has to be explicitly mentioned in the field

# Operation:

Operation Codes would be defined in each radxml which has to be defaulted in the Service XML as well.

Select function id checkbox and click on Operations.

Operation details popup screen will be displayed.

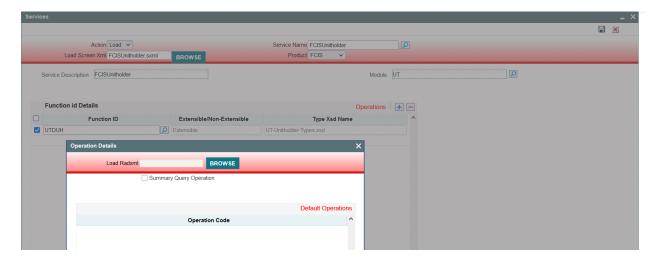


Fig: Screen to Show Operations.

## **Operation Details Screen:**

#### Load Radxml

Operation details screen attaches a Browse button to it so that user can browse the Function id RAD XML and load it to populate operations.

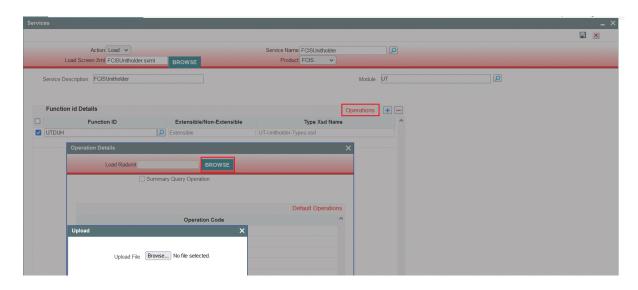


Fig: Screen to Load Radxml.

**Default Operations:** Click on Default operation. Operation code and Type Xsd Names will be default from loaded RADXML.

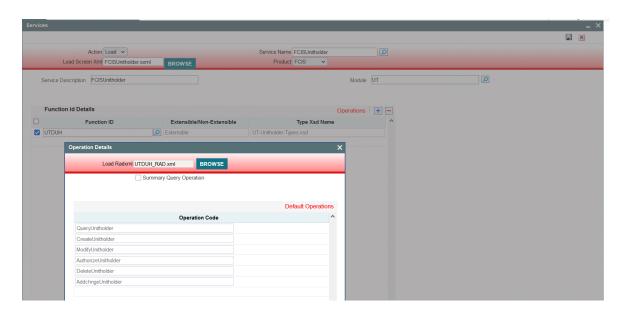


Fig: Screen to Default Operations

## Save: ServiceXML

ODT saves all the activities carried out by the developer in an xml file hereby referred to as SXML. Persistence of the WEBSERVICE is achieved through SXML and RADXML. If some changes are required on the webservice in a future release, the same SXML can be loaded and changes can be done on this SXML. ODT can segregate the changes done on different releases and saves the SXML accordingly. SXML will adhere to following naming convention:

Service Name + .sxml

Example: FCISUnitholder.sxml

# 4. ODT Silent Utility

The Following operations are supported in silent utility of ODT

- 1. LOGIN
- 2. SETRELEASE: Setting Release and Environment Details
- 3. BULKGENERATION: Bulk Generation of RADXML's units
- 4. REFRESH: Bulk refresh of RADXML's
- 5. SXML REFRESH: Bulk refresh of Service XML's
- 6. SXML\_UPDATER: Bulk Updater of service XML's based on the changes in RADXML's
- 7. SXML\_BULKGENERATION: Bulk Generation of web service artifacts.

Execution of Operation will be as per the sequence maintained in OdtOperations.properties.

# Example:

- 1. Operation = LOGIN
- 2 Operation = SETRELEASE
- 3. Operation = REFRESH

If sequence of operations is as above, then Login Operation, Set Release and Refresh Operations would be processed in respective sequence

Note: Login and set release are mandatory operations to be performed.

# 4.1 Prerequisites

JDK

# License Information:

JDK is distributed by Sun Microsystems, Inc under Java Development Kit Binary Code License agreement.

## Instructions:

Installer requires JDK 8 Update 321 version to be downloaded in the system and the same Should be set as environmental variable

## Apache Ant 2.0

#### Instructions:

Installer requires ANT 2.0 version to be downloaded in the system and the same should be set as environmental variable.

# 4.2 How to run utility on Windows/Unix

After copying the installer sources and library folder to your local system, make sure you uncheck the read only check box in source properties and apply the same to all the sub folders.

The screen shot below shows how the source folder in your local system should look like.

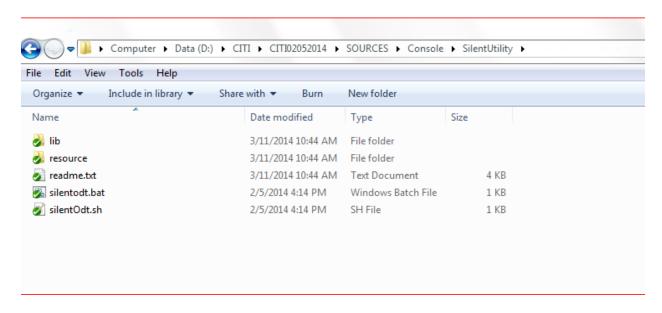


Fig: Source of SilentODTUtility.

# 4.3 Configuration of SilentODTUtility

All Configuration files can be found inside /resource folder of the utility.

**Note:** Please copy jaxb-xjc.jar to lib folder. This can be obtained from application server libraries. For example, in Weblogic 12c

<Oracle Home>\oracle common\modules\com.sun.xml.bind.jaxb-jxc.jar

Also make sure ojdbc6.jar is available under lib folder.

# 4.3.1 SilentOdt.properties

The sample property file has been given below. Please refer the details mentioned for each property in the below table. Some of them are encrypted using ODTPassEncryption.bat (ODTPassEncryption.sh for unix). Use 16 characters length of symmetric key for encryption (Preferably Alphanumeric) which will be prompted for input from user when the encryption utility is lunched. The same symmetric key must be mentioned in the property file as well.

```
2 ##ODT Version ==> 12.2/12.1/12.0.2/12.0.1/11.4 etc
3 ##type ==> FCUBS/FCIS/ELCM ; specifies the product
          ==> Release of the product specified
4 ##release
6 odtVersion=12.2
7 #FCUBS, FCIS, ELCM, PAYMENTS
8 type=FCUBS
9 release=FCUBS 12.2.0.0.0
10 productDesc=Oracle FLEXCUBE Universal Banking
11 ReleaseMonth=May
L2 ReleaseYear=2016
13
L4 ###ODT DataSource Credentials
L6 OdtJdbcUrl=040fjmATqNKRRdNFP9UR3eeXUUMaPnZJ1gtHVtXkIyVEgM1qCkuNqcIs96vR4NFq
L7 OdtDbUser=ODT121
L8 OdtDbPassword=ITgBkLEJpG06AuYE6jJkmg==
19 SymmetricKey=oraclefinancials
22 #logread Default set to N
23 #Default Path set to User Home directory, if not provided
24 #LEVEL ==>DEBUG/INFO/WARNING/SEVERE ; default value is INFO
26 logread = Y
27 logpath = D:/DESTTEMPDIR/ODT/log.txt
28 level = DEBUG
29
30
32 ##JAVA HOME is mandatory
33 ##WEBLOGIC and WebSphere Home would be required only if ANT scripts are being generated.
34 ##Use Backward Slash(\) for File Separator
36 JAVA HOME=C:\Program Files\Java\jdk1.8.0 73
37 WEBLOGIC HOME=D:\Oracle\Middleware
38 WAS HOME=D:\WAS
```

Fig: SilentODT Properties.

ODT Data Source Detail Credentials			
OdtJdbcUrl	Jdbc Url jdbc:oracle:thin:@10.184.xx.xx:1521:FCDEMO		
OdtDbUser	DB User name		
OdtDbPassword	DP Password		
	Logger Properties		
Logreqd	Y/N. Default set to N,		
Logpath	Provide the path where the Logger files will be generated.		
Level	Provide the Logger Level.		
	This can be either DEBUG/INFO/WARNING/SEVERE.		
	Provide as DEBUG for writing detailed log.		
	Default value would be set to INFO		
System Properties:			

JAVA_HOME	Maintain the Java installed location
WEBLOGIC_HOME	Maintain the oracle weblogic installed location

<u>Note:</u> WEBLOGIC\_HOME is optional and would be used for generating template Ant scripts whereas JAVA\_HOME is mandatory to run silentOdt utility

# 4.3.2 ODTOperations.properties

Configure the Operations files as per Requirement.

The Following operations are supported in silent utility of ODT

- 1. LOGIN
- 2. SETRELEASE: Setting Release and Environment Details
- 3. BULKGENERATION: Bulk Generation of Radxml units
- 4. REFRESH: Bulk refresh of radxml
- 5. SXML REFRESH: Bulk refresh of Service Xmls
- 6. SXML\_UPDATER: Bulk Updater of service Xmls based on the changes in radxml's
- 7. SXML BULKGENERATION: Bulk Generation of web service artifacts.

Execution of Operation will be as per the sequence maintained in OdtOperations.properties.

# Example:

- 1. Operation = LOGIN
- 2. Operation = SETRELEASE
- 3. Operation = REFRESH

If sequence of operations is as above, then Login Operation, Set Release and Refresh Operations would be processed in respective sequence

**Note:** login and setrelease are mandatory operations to be performed.

# 4.3.3.1 Login

**Userid:** Provide the ODT Userid which is created in the ODT Application **Password:** Provide the ODT Password which is created in the ODT Application

```
25 1.operation = LOGIN
26 1.userId= RADTOOL
27 1.password= wS/PEjVOI5pdJ7aYvjLuNQ==
28
```

Fig: SilentODT Login Properties

# Login should always be the first operation which to be configured as part of any execution

Login to Tool	
operation	Login
Userid	ODT Userid which is created in the
	ODT Application

password	ODT Password which is created in the
	ODT Application. Encrypted using
	ODTPassEncryption.bat. Refer section
	4.3 for more details about encryption.

# 4.3.3.2 Set Release

This operation can be used for setting Release and Environment Preferences for SilentODTUtility

relcode: Provide the ODT Release Code which is created in the ODT Application

envCode: Provide the ODT Environment Code which is created in the ODT Application

langcode: Provide the Lang code for above mentioned release code

Connection to the FLEXCUBE schema would be established based on data maintained in ODT or through the data in env\_config.xml as explained in earlier section

```
##Set Release and Environment for the User
## 2.operation= SETRELEASE
## 2.relCode=MODEL_BANK
## 2.envCode=MODEL_BANK_DEV_ENV
## 2.langCode=ENG
## 2.langCode=ENG
```

Fig: SilentODT Set Release Properties

Set Release and Environment for User	
operation	SETRELEASE
relCode	ODT Release Code which is created in
	the ODT Application
envCode	ODT Environment Code which is
	created in the ODT Application
langCode	Lang code for above mentioned
	release code

## 4.3.3.3 Bulk Generation

For generating all radxml artifacts for release in bulk this feature can be used.

**radxmlListFile**: Prepare text file which contains absolute path of all radxml's. Provide same file path.

**srcPath**: source Path Refers to the path where all radxml's are presented. List File would be generated by the Tool in this case.

Note that only either of radxml List File or srcPath should be present. If both is present, then radxmlListFile parameter would be considered for Bulk Generation

# fileType:

EXTENSIBLE – artifacts generated only for extensible screens NON\_EXTENSIBLE - artifacts generated only for non-extensible screens BOTH – artifacts for all files would be generated

destPath: Provide the path where the files will be generated.

gen: Provide the type of files to be generated

Example: UIXML, SYS\_JS, MAIN\_SPC, MAIN\_SQL,KERNEL\_SPC, KERNEL\_SQL

```
13 ##Bulk Generation Utility
14 (## 3.operation=BULKGENERATION
   ## 3.radxmlListFile=D:\ODT123\ABC.TXT
                                              -- A File containing absolute path of all radxmls to be processed
16 ## #3.srcPath=Z:\FCUBS12.0\MAIN
                                             -- Source Path Refers to the path where all radxmls are presnt.List File
    would be generated by the Tool in this case.
                                                Note that only either of radxmlListFile or srcPath should be present .
   ##
   ##
                                                 If both are present ,then radxmlListFile would be considered for Bulk
    Generation
   ## 3.fileType=EXTENSIBLE
                                             -- EXTENSIBLE/NON EXTENSIBLE/BOTH
   ## 3.destpath=D:\RADTOOL
                                              -- destination Path
   ## 3.gen = UIXML,SYS JS
                                              -- Files to be Generated seperated by coma. Possible entries are listed below
   ##
   UIXML, SYS JS, MAIN SPC, MAIN SQL, KERNEL SPC, KERNEL_SQL, CLUSTER_SPC, CLUSTER_SQL, CUSTOM_SPC, CUSTOM_SQL, UPLOAD_SPC, UPLOAD_SQ
    UPLOAD_TRIGGER, UPLOAD_TABLE_DDL, XSD_FILES, MENU_DETAILS, LABEL_DETAILS, AMEND_DETAILS, SUMMARY_DETAILS, SCREEN_DETAILS, LOV_D
   ETAILS.
   BLOCK PK COLS, CALL FORM DETAILS, BLOCK DETAILS, DATASCR DETAILS, FUNCTION CALL FORMS, GATEWAY DETAILS, NOTIFICATION DETAILS,
    FUNCTION PARAMETERS
       NOTIFICATION_TRIGGER, PURGE_DETAILS, ARCHIVE_TBL_DEF
```

Fig: SilentODT Bulk Generation Properties

Bulk Generation Utility	
Input	Output
radxmlListFile	UIXML,SYS_JS,MAIN_SPC,MAIN_SQL,KERNEL_SPC,KERNEL_SQL,
srcPath	CLUSTER_SPC,CLUSTER_SQL,CUSTOM_SPC,CUSTOM_SQL,
fileType	UPLOAD_SPC,UPLOAD_SQL,UPLOAD_TRIGGER,UPLOAD_TABLE_DDL,
gen	XSD_FILES,MENU_DETAILS,LABEL_DETAILS,AMEND_DETAILS,
destpath	SUMMARY_DETAILS,SCREEN_DETAILS,LOV_DETAILS,
·	BLOCK_PK_COLS,CALL_FORM_DETAILS,BLOCK_DETAILS,
	DATASCR_DETAILS,FUNCTION_CALL_FORMS,GATEWAY_DETAILS,
	NOTIFICATION_DETAILS,FUNCTION_PARAMETERS
	NOTIFICATION_TRIGGER,PURGE_DETAILS,ARCHIVE_TBL_DEF in destpath

# 4.3.3.4 Refresh

Refresh Functionality allows developers to upgrade the existing radxml to its later version keeping the sub version specific changes intact. Three kinds of refresh can done using the Tool.(Please refer the 09-Development\_WorkBench\_Source\_Upgrade.docx)

- 1) Child Refresh
- 2) Screen Child Refresh
- 3) Source Refresh

Refresh Type: Provide the refresh Type

(CHILD\_REFRESH/SCRCHILD\_REFRESH/SOURCE\_REFRESH)

srcFileList: A txt File containing the List of all Sources radxml's. I.e. radxml's which has to be

refreshed

baseFileList: A txt File containing the List of all base radxml's.

srcReIType: Provide the release type of Source Radxmls list(KERNEL/CLUSTER/CUSTOM)

baseRelType: Provide the release type of base Radxmls list (KERNEL/CLUSTER/CUSTOM)

destpath: Provide the path where the files will be generated

```
28 ##Refresh Utility
29 ## 4.operation=REFRESH
                                          -- Either of CHILD_REFRESH/SCRCHILD_REFRESH/SOURCE REFRESH
30 ## 4.refreshType=SOURCE REFRESH
  ## 4.srcFileList=D:\\REFRESH\\src.txt
                                            -- A txt File containing the List of all Sources radxmls. i.e radxmls which
   has to be refreshed
   ## 4.baseFileList=D:\\REFRESH\\base.txt -- A txt File containing the List of all base radxmls.
                                           -- Release Type of Source Radxmls; Either of KERNEL/CLUSTER/CUSTOM
   ## 4.srcRelType=CUSTOM
                                      -- Release Type of Base Radxmls; Either of KERNEL/CLUSTER/CUSTOM
34 ## 4.baseRelType=KERNEL
35 ##
                                             Note that base and Src Release Types should be the same for Child and
   screen Child Refresh
                                             Base Release Type should be atleast one level below Src Release type for
   SOURCE Refresh.
  ## 4.destpath=D:\\RADTOOL
39
```

Fig: SilentODT Refresh Properties

Refresh Utility	
Input	output
refreshType	Refreshed Radxml's in destpath
srcFileList	
baseFileList	
srcRelType	
baseRelType	
destpath	

# 4.3.3.5 Service XML Bulk Generation

Web service artifacts can be generated through this operation

sxmlListFile: Prepare text file which contains absolute path of all Service xml .

**radxmlListFile:** Prepare text file which contains absolute path of all radxmls which are used for those services.

# xsdListFile: Prepare text file which contains absolute path of all XSDs which are used for those services. Non-extensibility/Common XSDs are copied from this path

**srcPath:** provide source folder path which is option (Tool will create radxmlListFile and xsdListFile by itself from the srcPath

Note that if srcPath is provided, radxmlListFile and xsdListFile need not be provided

# gen: Provide type of Files to be Generated (separated by coma). Options are IMPL\_FILE, CONFIG\_FILES,WSDL\_FILE,XSD\_FILES,GW\_WS\_PROP FILES,ANT\_BUILD

**nonExtServicesReqd**: Y/N Specifies whether NonExtensible Operations has to be included in the generated Components

**destpath:** Provide the path where the files will be generated.

validateXsds: Y/N. Default set to Y,

If value set to 'Y' all XSD will be validated by tool

```
40 ## Service XML Componenet Generator
41 (## 5.operation=SXML BULKGENERATION
42 ## 5.sxmlListFile=D:\\ODT123\\TEST\\srcFile.TXT
                                                               -- List Of Absolute path of all sxml files in a text file
43 ## 5.radxmlListFile=
                                                               -- A txt File containing the List of all radxmls.
44 ## 5.xsdListFile=
                                                               -- A txt File containing the List of all xsds. This
   parameter is required only if NonExt Operations are Required.
                                                                Nonextensile XSds are copied from this path
46 ## 5.srcPath=Z:\\EXEC\\FLEXCUBE_Kernel\\FCUBS_12.0.0\\MAIN -- Src Path. Tool will create radxmlListFile and
   xsdListFile by itself from the srcPath if provided
                                                                   Note that if srcPath is provided, radxmlListFile and
   xsdListFile need not be provided
   ## 5.gen=IMPL FILE,CONFIG FILES,WSDL FILE,XSD FILES -- Files to be generated. Possible entries are Listed
49 ##
   IMPL FILE, CONFIG FILES, WSDL FILE, XSD FILES, GW WS PROP FILES, ANT BUILD
50 ## 5.nonExtServicesReqd=Y
                                                               -- Y/N Specifies whtherNonExtensible Operations has to
   included in the Generated Components
51 ## 5.destpath=D:\RADTOOL
                                                               -- destination Path
52 ## 5.validateXsds=Y
                                                               -- validate the xsds Y/N
```

Fig: SilentODT Service XML Bulk Generation Properties

Service XML Component Generator	
Input	output
sxmlListFile	
radxmlListFile	

xsdListFile	
srcPath	IMPL_FILE,CONFIG_FILES,WSDL_FILE,XSD_FILES,GW_WS_PROP_FIL
nonExtServicesReqd	ES,ANT_BUILD in destpath
destpath	
validateXsds	

# 4.3.3.6 Service XML Updater

This feature can be used to update the Service XMLs with the latest data from Radxmls. Following details will be updated.

- 1) Any **addition, deletion or modification of operation codes** in function ld would be updated in Service XML
- 2) If any function Id is removed from the service (specified in radxml); then the same would be removed from Service XML

Note that if any **new function Id** is attached to the service (in Radxml); then the same will **not be updated in the Service XML**. This has to added manually in the Service XML through ODT user interface

Operation: SXML\_UPDATE

**sxmlListFile:** Prepare text file which contains absolute path of all Service xml. Provide same file path.

**radxmlListFile:** Prepare text file which contains absolute path of all radxmls which are used for those services. Provide same file path

**srcPath**: Provide source folder path. This field is optional (Tool will create radxmlListFile and SxmlListFile by itself from the srcPath)

Note that if srcPath is provided, radxmlListFile and sxmlListFile need not be provided

**destpath**: Provide the path where the files will be generated.

confirmStage: SINGLE\_STAGE\_UPDATE(Default Value should not be modified by developer)

```
56 ## Service XML Updater
57 ## 6.operation=SXML UPDATER
## 6.sxmlListFile=D:\\ODT123\\TEST\\srcFile.TXT
                                                               -- List Of Absolute path of all sxml files in a text file
9 ## 6.radxmlListFile=
                                                               -- A txt File containing the List of all radxmls.
0 ## 6.xsdListFile=
                                                               -- A txt File containing the List of all xsds. This
   parameter is required only if NonExt Operations are Required.
2 ## 6.srcPath=Z:\\EXEC\\FLEXCUBE Kernel\\FCUBS 12.0.0\\MAIN -- Src Path. Tool will create radxmlListFile and
  xsdListFile by itself from the srcPath if provided
                                                                   Note that if srcPath is provided, radxmlListFile and
   xsdListFile need not be provided
4 ## 6.destpath=D:\\RADTOOL
                                                                -- destination Path
## 6.confirmStage=SINGLE_STAGE_UPDATE
   SINGLE_STAGE_UPDATE/UPDATE_FROM_STAT_FILES/STAT_FILE_GEN
                                                                    SINGLE_STAGE_UPDATE : Updation of service Xmls in
   one step process.
67 ##
                                                                     If any New function id is found mapped to a
   Service, it will not be updated.
                                                                    STAT_FILE_GEN : First Stage if Updation carried in
   2 Steps. generates Stat Files in destPath.
69 ##
                                                                       User can decide whether to update new
   FunctionId's to Service Xmls
                                                                    UPDATE FROM STAT FILES : Second Step . Utility will
   update the Service Xml based on the confirmation
                                                                       information provided by User in the Stat files
   generated in previous Stage.Stat Files has to be placed in the destPath
```

Fig: SilentODT Service XML Updater Properties

Service XML Updater			
Input	output		
sxmlListFile	updated Service XML's in destpath		
radxmlListFile			
xsdListFile			
srcPath			
destpath			
confirmStage			

# 4.3.3.7 Service XML Refresh

Refresh Functionality allows us to upgrade the existing service xml to its later version keeping the sub version specific changes intact.

**srcFileList:** Prepare text file which contains absolute path of all Service xml, same file should be provide i.e. service xml which has to be refreshed

# baseFileList: Prepare text file which contains absolute path of all base service xmls. Provide same file path.

For instance, for a custom development team; all the latest Kernel files has to mentioned in baseFileList while the custom Service XMLs to be refreshed has to be mentioned in the srcFileList

srcRelType: Provide the release type of Source Radxmls list(KERNEL/CLUSTER/CUSTOM)

# baseRelType: Provide the release type of base Radxmls list (KERNEL/CLUSTER/CUSTOM). baseRelType should be at least one level below srcRelType for SOURCE Refresh.

For Instance, for a custom development team, srcRelType would be CUSTOM and baseRelType can be either KERNEL/CLUSTER depending on the base source type

destpath: Provide the path where the files will be generated.

Fig: SilentODT Service XML Refresh Properties

Service XML Refresh			
operation	Refreshed Service XML's in destpath		
srcFileList			
baseFileList			
srcRelType			
baseRelType			
destpath			

# 4.3.3 **GW\_CONFIG.properties**

This properties files parameters are used for generation gateway web service properties files. This configuration file is optional. Provide only if Gateway Web service property files (**GW\_WS\_PROP\_FILES**) is being generated as part of Service XML Bulk generation operation.

EJB\_APP\_NAME: Provide Name of the deployed EJB Application

EJB\_APP\_SERVER: Provide Application server name in which ear deployed

**EJB\_JNDI\_NAME**: *EJB JNDI Name* is the reference name of the ejb by which the ejb has been deployed.

**EJB\_SERVER\_URL:** Application server IP Address & port where the EJB application is deployed.

**EJB\_SERVER\_USERNAME:** User Name of the application server where the EJB application is deployed.

**EJB\_SERVER\_PASSWORD:** Password of the application server where the EJB application is deployed.

**GW\_WS\_LOGGER\_PROP\_FILE\_PATH:** Provide the Location of Logger Property File path in the server where web service is to be deployed. Provide path including the file name. *Example: D:/Kernel11.1/GW\_WS/config/gw\_ws\_logger.properties(Windows path)*/oraint1/kernel//Gateway/GWWS/config/gw\_ws\_logger.properties (Linux or UNIX)

**GW\_WS\_LOGGER\_FILE\_PATH:** Provide the location where debug files will be written Example: D:/Kernel11.1/GW\_WS/log/ (Windows)
/oraint1/kernel/FC120INS DEBUG/Gateway/GWWS/log (Linux or Unix)

**GW\_WS\_PROP\_FILE\_PATH:** Path where property file is placed in the server. This will be referred in web.xml of web service property file

Example: D:/Kernel11.1/GW\_WS/prop/ (Windows)

/oraint1/kernel/FC120INS\_DEBUG/Gateway/GWWS/prop (Linux or UNIX)

```
######GW EJB Properties#####Used For Creation GW Property File ###############
#EJB APP NAME - Name of the deployed EJB Application
EJB APP NAME=GWEJB
# EJB APP SERVER (WEBLOGIC, WEBSPHERE)
EJB_APP_SERVER=WEBLOGIC
#Reference name of the EJB by which it has been deployed. This should be '<EJB APPLICATION NAME>/ejb/GW EJB Bean'
EJB_JNDI_NAME=GWEJB/ejb/GW_EJB_Bean
EJB_SERVER_URL=http://localhost:7010
EJB SERVER USERNAME=weblogic
EJB_SERVER_PASSWORD=weblogic1
##Location of Logger Property File path in the server where Webservice is to be deployed.
##Provide Path Including File Name
GW WS LOGGER PROP FILE PATH=/home/orallgas/Gateway11.0/GW WS/config/gw ws logger.properties
##Location where Debug Files will be written
GW WS LOGGER FILE PATH=/home/orallgas/Gatewayl1.0/GW WS/log
#Location of Gateway Property File. If not provided ; assumed to be same as of Logger property File Path
GW_WS_PROP_FILE_PATH=/home/orallgas/Gateway11.0/GW_WS/prop
XSD PATH=/home/orallgas/Gateway11.0/GW WS/XSD
```

Fig: SilentODT GW Config Properties

	OW CONFIG		
GW_CONFIG			
EJB_APP_NAME	Provide Name of the deployed EJB Application		
EJB_APP_SERVER	Provide Name of the deployed EJB Application		
EJB_JNDI_NAME	EJB JNDI Name is the reference name of the ejb by		
	which the ejb has been deployed		
EJB_SERVER_URL	Application server IP Address & port where the EJB		
	application is deployed.		
EJB_SERVER_USERNAME	User Name of the application server where the EJB		
	application is deployed.		
EJB_SERVER_PASSWORD	Password of the application server where the EJB		
	application is deployed.		
GW_WS_LOGGER_PROP_FILE_PATH	Provide the Location of Logger Property File path in		
	the server where web service is to be deployed.		
	Provide path including the file name.		
GW_WS_LOGGER_FILE_PATH	Provide the location where debug files will be written		
GW_WS_PROP_FILE_PATH	Path where property file is placed in the server. This		
	will be referred in web.xml of web service property file.		
XSD_PATH	XSD Path.		

# 4.4 Generation of Web service Artifacts through SilentOdtUtility

To generate web service artifacts for a service, configure the property files of the utility as explained in the previous section.

Following operations needs to be configured in OdtOperations.properties in respective sequence

- 1) LOGIN
- 2) SETRELEASE

# 3) SXML\_BULKGENERATION

Provide following values for gen parameter of SXML\_BULKGENERATION IMPL\_FILE, CONFIG\_FILES, WSDL\_FILE, XSD\_FILES, GW\_WS\_PROP\_FILES, ANT\_BUILD

Double click the batch file silentOdt.bat/sh present in the ODT source.

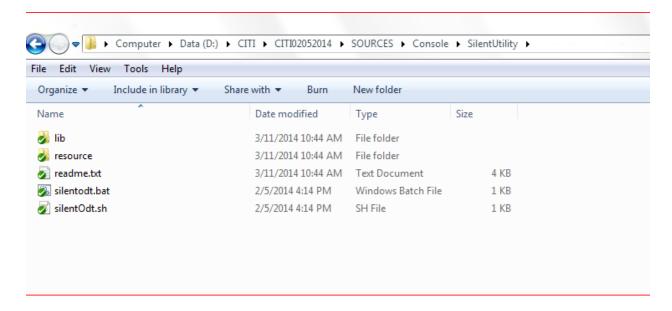


Fig: SilentODT Sources

This displays the screen as follows.

```
Developer WorkBench For FLEXCUBE UBS: 12.0.3

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INFO: Lorging In

INFO: Succesfully Logged in as PANDETIP

INFO: Succesfully Logged in as PANDETIP

INFO: Services Foully Logged in as PANDETIP

INFO: Retase Code: FCUBS_12.03_COLU_FC1203TST

INFO: Services Foully Logged in as PANDETIP

INFO: Lorging Preferences

INFO: Lorging Preferences

INFO: Lorging Preferences

INFO: Lorging Preferences

INFO: Lorging Lorging
```

Fig: SilentODT Running in Command Prompt

After successful built operation, The Following Service artifacts files will be generated in the destination directory specified

Files	Description
<service name="">Src\*Impl.java</service>	IMPL files for service
<service name="">WSDL\*.wsdl</service>	WSDL files for service
<service name="">Config\*.xml</service>	Config files
<service name="">XSD\*.xsd</service>	Service specific xsd's
<service name="">Common\*.xsd's</service>	Common XSD's (call forms ) part of service
<service name="">\<service name="">\META-</service></service>	Config XML's for building the Web service
INF\application.xml	
<pre><service name="">\<service name="">\META-</service></service></pre>	
INF\MANIFEST.MF	
<service name="">\<service< td=""><td>Utility Jar for building the web service</td></service<></service>	Utility Jar for building the web service
Name>\commons-codec-1.2.jar	
<service name="">\<service< td=""><td>Utility Jar for building the web service</td></service<></service>	Utility Jar for building the web service
Name>\wscommon.jar	
Sample Ant file	For building service ear file (Can be modified by Dev team as per
	Folder structure )

Fig: SilentODT Generated Files Tree Structure

# 4.4.1 Log Files

## ServiceGenerationStatus.csv

Generation status will be saved in above mentioned file.

This will be generated in the destination path

#### XSDValidationErrors.csv

XSD Validation errors, if any, will be saved in above mentioned file.

This will be generated in the destination path

# Utility Log File

Log File of the utility would be generated in the path configured in SilentOdt.properties. This can be used in case of any troubleshooting

Proceed only if status is Success for all services in ServiceGenerationStatus.csv and XSDValidationErrors.csv is not generated

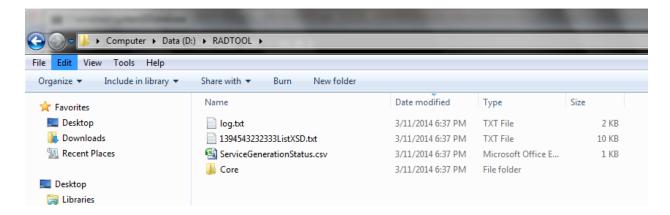


Fig: SilentODT Generated log Files.

# 4.4.2 Ant Build Scripts

Tool will generate the sample ant scripts for weblogic and web sphere application server. Developer can write ant script based on sample ant script or same ant file can be used for building ear file.

WLANTBuild.xml - Ant script for web logic server

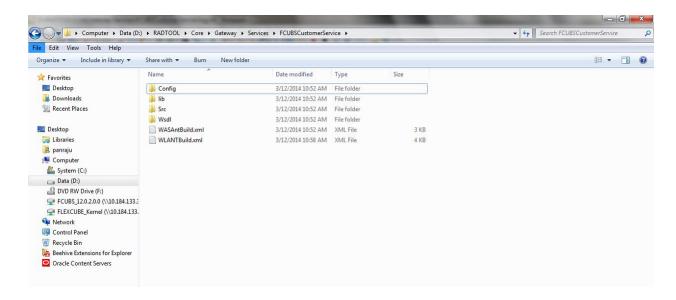


Fig: SilentODT Generated Files Ant Build Files.

# 4.4.3 Gateway Property Files

Gateway property files would be generated in GW\_WS folder inside destination folder. Following files would be generated.

- gw\_ws\_logger.properties
- GW\_WS\_Prop.properties



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