

# Oracle® FLEXCUBE Investor Servicing Development Workbench - Service XML Development



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# Preface

**Oracle FLEXCUBE Investor Servicing** is a comprehensive mutual funds automation software from Oracle® Financial Servicing Software Ltd.©.

You can use the system to achieve optimum automation of all your mutual fund investor servicing processes, as it provides guidelines for specific tasks, descriptions of various features and processes, and general information.

This topic contains the following sub-topics:

- [Purpose](#)
- [Audience](#)
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Conventions](#)
- [Screenshot Disclaimer](#)
- [Prerequisite](#)
- [Related Resources](#)

## Purpose

This manual is designed to help FLEXCUBE Application developers/users to familiarize with ORACLE FLEXCUBE Development Workbench for Investor Servicing.

## 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:

**Table 1 Proficiency and Resources**

| Proficiency                               | Resources                                                  |
|-------------------------------------------|------------------------------------------------------------|
| <b>FLEXCUBE Functional Architecture</b>   | Training programs from Oracle Financial Software Services. |
| <b>FLEXCUBE Technical Architecture</b>    | Training programs from Oracle Financial Software Services. |
| <b>FLEXCUBE Object Naming Conventions</b> | Development Overview Guide                                 |

**Table 1 (Cont.) Proficiency and Resources**

| Proficiency                                 | Resources                   |
|---------------------------------------------|-----------------------------|
| 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 and SQL Language | Self-Acquired               |
| Working knowledge of XML files              | Self-Acquired               |

## 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>.

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## Critical Patches

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## Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and 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                                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>boldface</b> | Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.         |
| <i>italic</i>   | 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. |

## 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.

## Prerequisite

Specify **User ID** and **Password**, and log in to **Home Screen**.

## Related Resources

The functions of ORACLE FLEXCUBE Development Workbench for Investor Servicing system is organized into various guides, each discussing a component.

For more information, see these Open Development Tool documents:

- *Open Development Tool Installation*
- *Development Workbench - Getting Started*
- *Development Workbench - Administration*
- *Development Workbench - Screen Development I*
- *Development Workbench - Screen Development II*
- *Development Workbench - Screen Customizer*
- *Development Workbench - Notifications*
- *Development Workbench - Bulk Generation*
- *Development Workbench - Source Upgrade*
- *Development Workbench - Tracking Changes*
- *Child and Screen Childs - Concept and Design*
- *Development of Maintenance Form*
- *Development of Online Form*
- *Development of Call Form*
- *Development of Launch Forms and Other Screens*
- *Development of Dashboard Form*
- *Development Workbench Service XML Development*
- *Development Workbench Performance Tuning Enhancements*
- *Development Workbench - Rest Services Development*

# 1

## Service XML Development

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

This topic explains the steps to create/Modification of Service xml and generating webservice artifacts for building ear file.

This topic contains the following sub-topics:

## 2

# Service XML

This topic provides an overview of components of the 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.

### Artifacts of Service XML

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

**Table 2-1 Files and Description**

| Files                                                                                                        | Description                                 |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <Service Name>Src\*Impl.java                                                                                 | IMPL files for service                      |
| <Service Name>WSDL\*.wsdl                                                                                    | WSDL files for service                      |
| <Service Name>Config\*.xml                                                                                   | Config files                                |
| <Service Name>XSD\*.xsd                                                                                      | Service specific xsd's                      |
| <Service Name>Common\*.xsd's                                                                                 | Common XSD's ( call forms ) part of service |
| <Service Name>\<Service Name>\META-INF\application.xml<br><Service Name>\<Service Name>\META-INF\MANIFEST.MF | Config XML's for building the Web service   |
| <Service Name>\<Service Name>\commonscodec-1.2.jar                                                           | Utility Jar for building the web service    |
| <Service Name>\<Service Name>\wscommon.jar                                                                   | 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.

- [Generate Service XML](#)  
This topic provides the systematic instructions to generate Service XML.

## 2.1 Generate Service XML

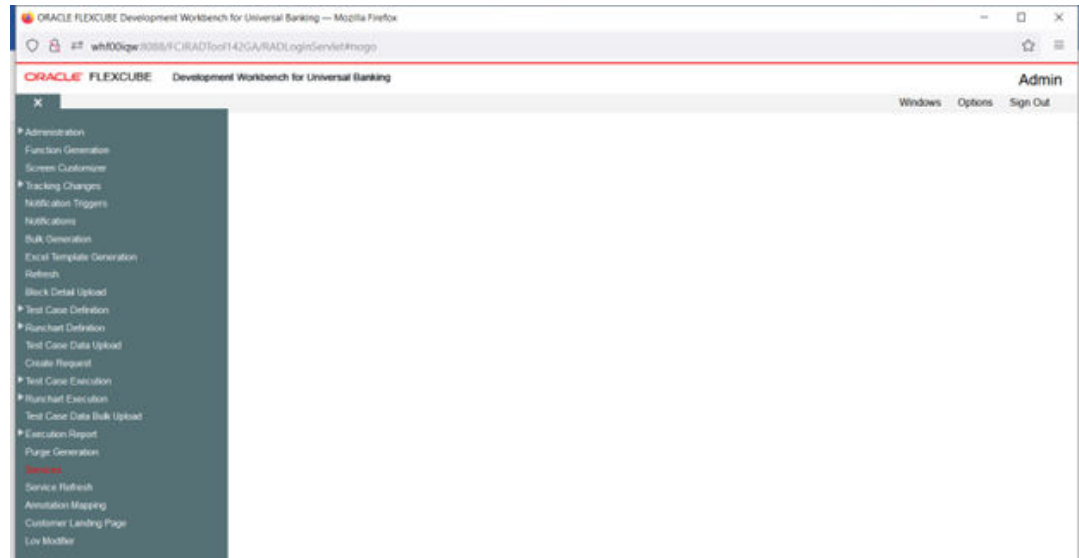
This topic provides the systematic instructions to generate Service XML.



1. Log in to **Development Workbench for Universal Banking**.

The **Development Workbench for Universal Banking** Home Page is displayed.

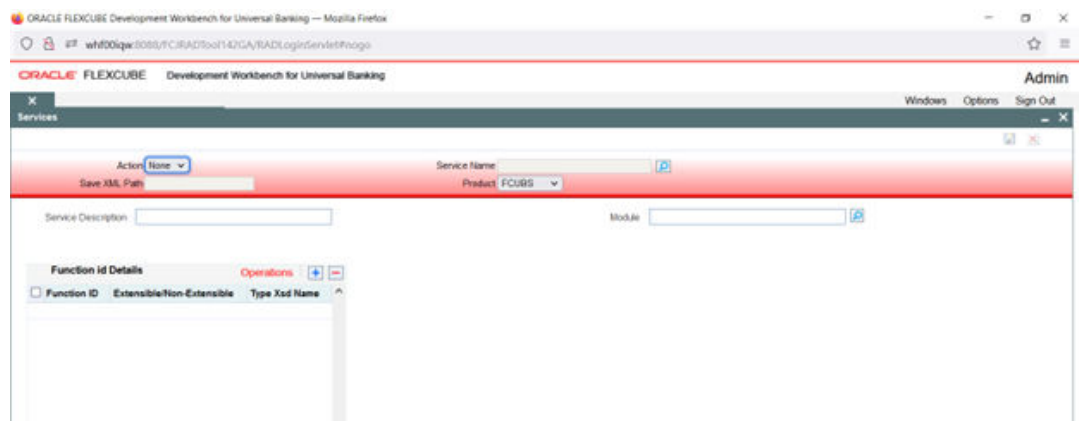
**Figure 2-1 Development Workbench for Universal Banking**



2. Click the **Services** node in the **Browser** menu in the Landing page of ODT.

The **Services** screen is displayed.

**Figure 2-2 Services Screen**



3. Specify the details in the **Services** screen while creating a new service in ODT.

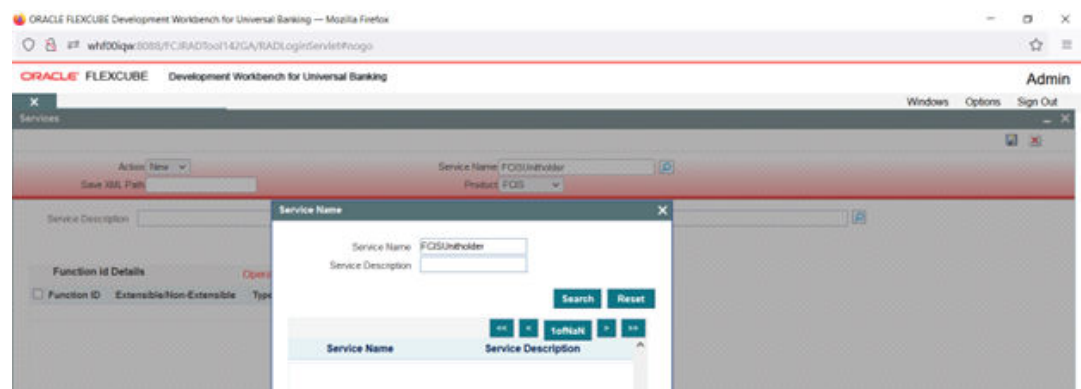
For more information on fields, refer to the field description table.

Table 2-2 Services - Field Description

| Field                      | Description                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Action</b>              | Specify the <b>Action</b> from the drop-down list. The list displays the following values: <ul style="list-style-type: none"> <li><b>New</b></li> <li><b>Load</b></li> </ul> Select the <b>Action</b> as <b>New</b> for a new Service development.<br>Select the <b>Action</b> as <b>Load</b> to load the corresponding Service xml using <code>browser</code> option in Save Xml path. |
| <b>Load Screen XML</b>     | Use <code>Browse</code> option to load XML.                                                                                                                                                                                                                                                                                                                                             |
| <b>Service Name</b>        | If the action is selected as <b>New</b> , 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).                                                                                                                                         |
| <b>Service Description</b> | On selection of service name, service description will be populated in <b>Service Description</b> field.                                                                                                                                                                                                                                                                                |
| <b>Module</b>              | If the action is selected as <b>New</b> , Module has to be selected from Module LOV. (Module LOV will fetch values from SMTB_MODULES of Business schema).<br><br>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.                 |

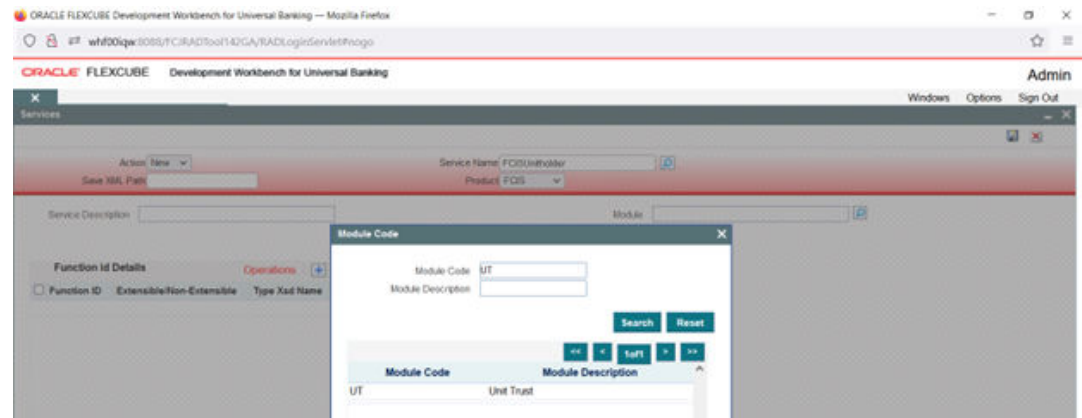
- Select the **Service Name** from the service LOV, if the action is selected as **New**.  
The **Service Name** window populates.

Figure 2-3 Service Name



- Select the **Module** from the Module LOV, if the action is selected as **New**.  
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. On selection of module, module code and module description will be populated in module description field.  
The **Module Code** window populates.

Figure 2-4 Services\_Module Code

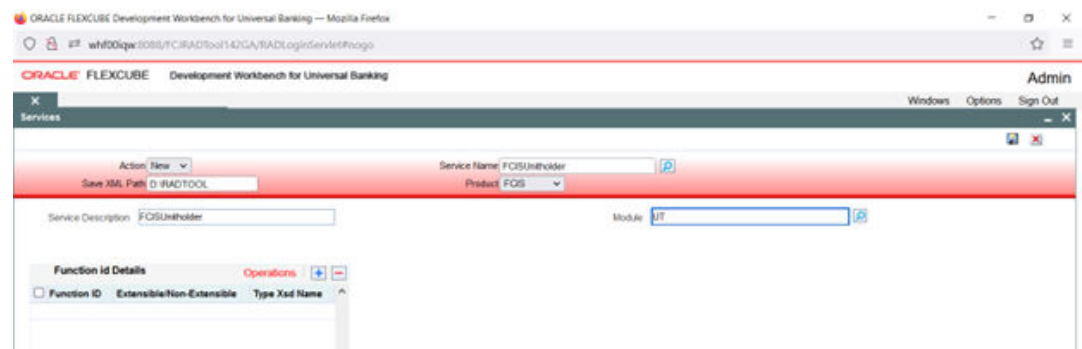


6. **Save XML Path:** Save the xml path if the action is selected as **New**. It is optional and if provided, then the generated units will be saved in the path mentioned.

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 the **Browse** button to it so that user can browse the Service xml and load it.

Figure 2-5 Services\_Save Xml Path

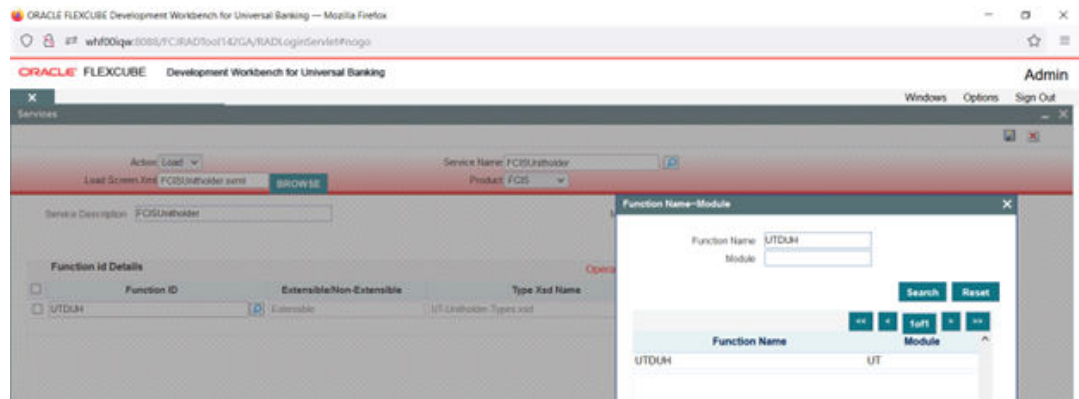


7. Attach the **Function ID** which are part of this service. You can also remove the same from service if not required.
8. Select the **Function ID** from Function Id LOV to add the same for that service. Function Id LOV will populate data from SMTB\_MENU.

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**.

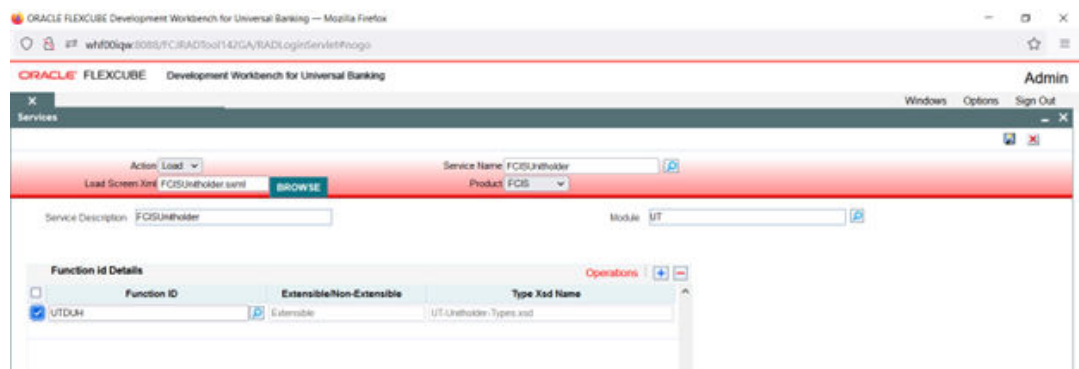
The **Function Name-Module** window populates.

Figure 2-6 Function Name-Module



9. On selection of Function Id, this field value **Extensible/Non-Extensible** would be populated.

Figure 2-7 Screen to populate Function Id

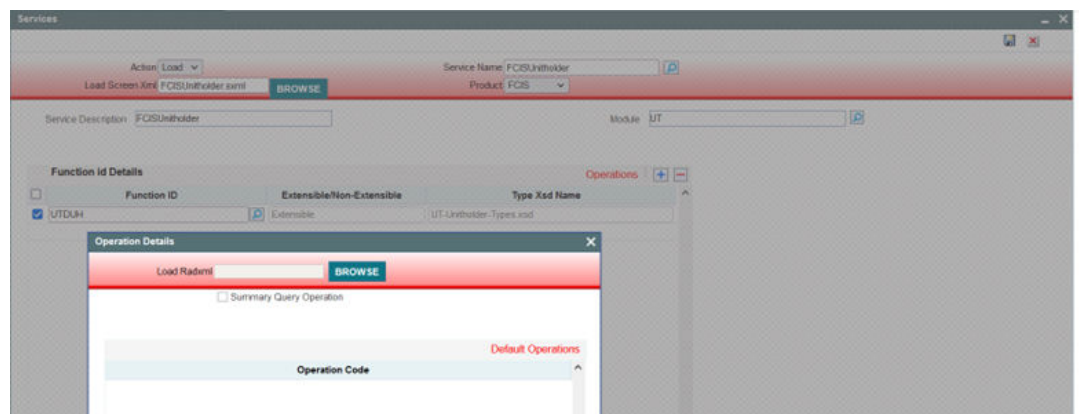


10. **Type XSD name** will be defaulted along with operations for an Extensible Function Id. For Non-Extensible Function Id, **Type XSD name** has to be explicitly mentioned in the field.
11. Select the **Function ID** checkbox and click **Operations**.

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

The **Operation Details** pop-up screen is displayed.

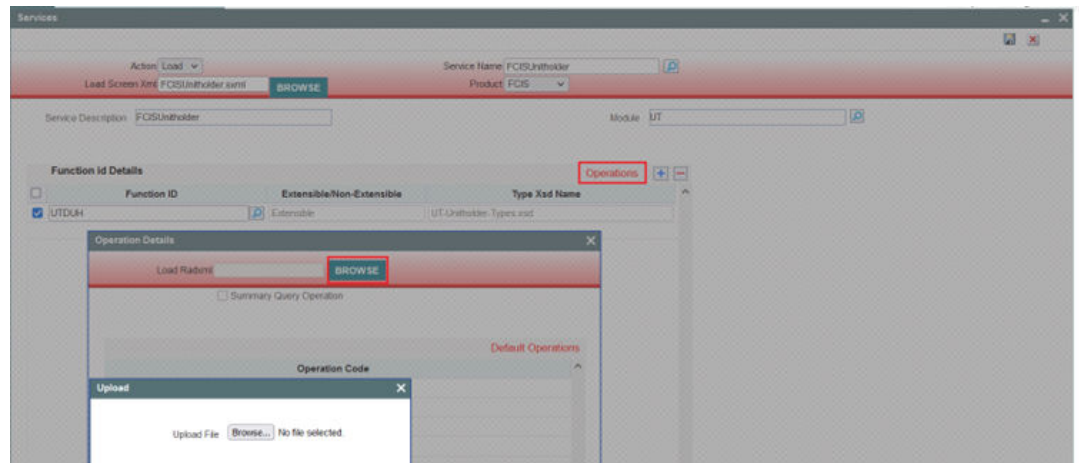
Figure 2-8 Services\_Operation Details



12. In the **Operation Details** screen, click the **Browse** button to it so that the user can browse the Function id RAD XML and load it to populate operations.

The **Upload** window populates.

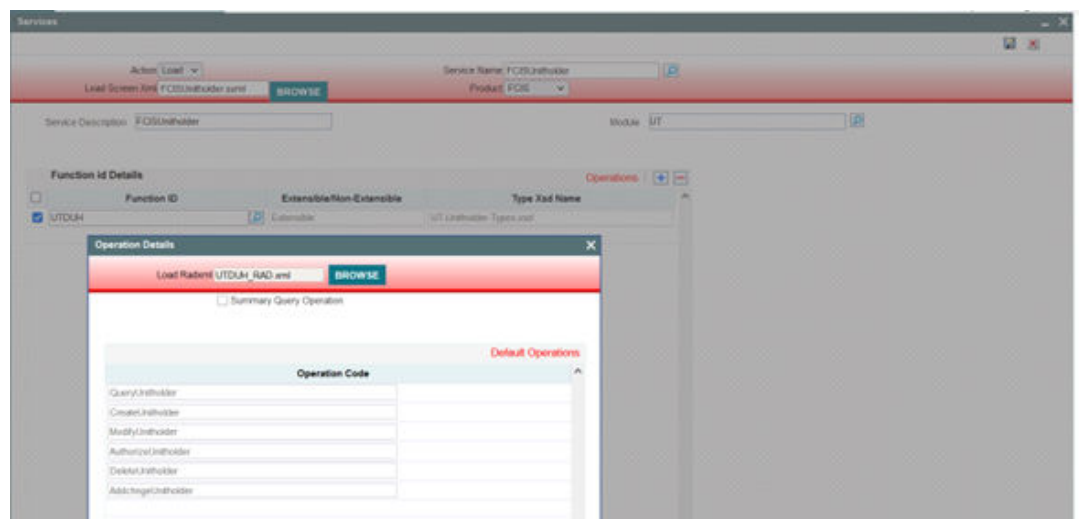
**Figure 2-9 Services\_Operation Details\_Upload**



13. Click the **Default operations** in the **Operation Details** Screen. **Operation Code** and **Type Xsd Names** will be defaulted from loaded RADXML.

The **Services\_Operation Details\_Default Operations** screen is displayed.

**Figure 2-10 Services\_Operation Details\_Default Operations**



14. Save the Service XML. 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 follow the below mentioned naming convention as **Service Name + .sxml**.

**Example:** FCISUnitholder.sxml

# 3

## ODT Silent Utility

This topic gives an overview on operations supported in silent utility of ODT.

The Following operations are supported in silent utility of ODT:

- **LOGIN**
- **SETRELEASE**: Setting Release and Environment Details
- **BULKGENERATION**: Bulk Generation of RADXML's units
- **REFRESH**: Bulk refresh of RADXML's
- **SXML\_REFRESH**: Bulk refresh of Service XML's
- **SXML\_UPDATER**: Bulk Updater of service XML's based on the changes in RADXML's
- **SXML\_BULKGENERATION**: Bulk Generation of web service artifacts.

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

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 the respective sequence.



### Note:

Login and Set Release are mandatory operations to be performed.

- [Prerequisites](#)  
This topic gives an overview on the prerequisites of ODT Silent Utility.
- [Run utility on Windows/Unix](#)  
The topic briefs on run utility operation in Windows/Unix.
- [Configure SilentODTUtility](#)  
The topic briefs the steps to configure SilentODTUtility.
- [Generation of Web service Artifacts through SilentOdtUtility](#)  
The topic provides the instructions to generate Web service Artifacts through SilentOdtUtility

### 3.1 Prerequisites

This topic gives an overview on the prerequisites of ODT Silent Utility.

Before the run utility operation in ODT, ensure the installation of the following technologies:

- **JDK**

**License Information:** JDK is distributed by Sun Microsystems, Inc under Java Development Kit Binary Code License Agreement.

**Instructions:** The installer requires JDK 8 Update 321 version to be downloaded in the system and the same should be set as an environmental variable.

- **Apache Ant 2.0**

**Instructions:** The installer requires ANT 2.0 version to be downloaded in the system and the same should be set as an environmental variable.

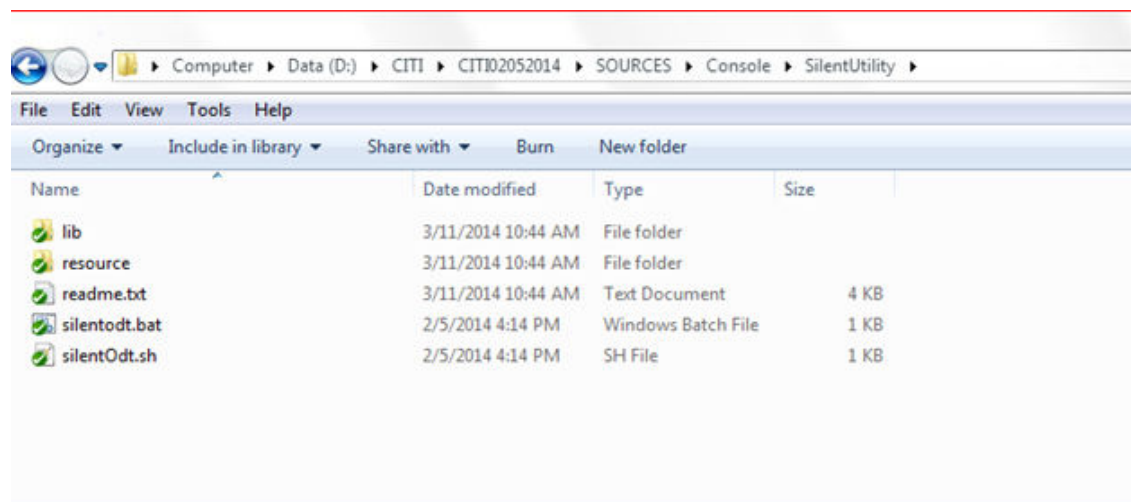
## 3.2 Run utility on Windows/Unix

The topic briefs on run utility operation in Windows/Unix.

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

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

**Figure 3-1 Path of SilentODTUtility Source**



## 3.3 Configure SilentODTUtility

The topic briefs the steps to configure SilentODTUtility.

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

 **Note:**

- Copy `jaxb-xjc-2.3.5.jar` to lib folder. This can be obtained from application server libraries. For example: In Weblogic 14c  
`<Oracle_Home>\oui\modules\private, copy jakarta.xml.bind-api-2.3.3, jakarta.activation-api-1.2.2, jaxb-impl-2.3.9` from `Installer\SOURCE\Library\tomcat` to `\lib` folder.
- Also make sure `ojdbc8.jar` is available under lib folder.

This topic contains the following sub-topics:

- [SilentOdt.properties](#)  
This topic briefs on SilentOdt.properties.
- [ODTOperations.properties](#)  
This topic explains the ODTOperations.properties in detail.
- [GW\\_CONFIG.properties](#)  
This topic briefs GW\_CONFIG.properties.

### 3.3.1 SilentOdt.properties

This topic briefs on SilentOdt.properties.

#### **SilentOdt.properties**

The sample property file has been given below.

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.



Figure 3-2 SilentODT Properties

```

1 #####
2 ##ODT Version ==> 12.2/12.1/12.0.2/12.0.1/11.4 etc
3 ##type ==> FCUBS/FCIS/ELCM ; specifies the product
4 ##release ==> Release of the product specified
5 #####
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
12 ReleaseYear=2016
13
14 ###ODT DataSource Credentials
15 #####
16 OdtJdbcUrl=O40fjmATqNKRRdNFP9UR3eeXUUMaPnZJ1gtHVtXkIyVEgM1qCkuNqcIs96vR4NFq
17 OdtDbUser=ODT121
18 OdtDbPassword=ITgBkLEJpG06AuYE6jJkmg==
19 SymmetricKey=oraclefinancials
20
21 ##### Logger Properties#####
22 #logreqd 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
25 #####
26 logreqd = Y
27 logpath = D:/DESTTEMPDIR/ODT/log.txt
28 level = DEBUG
29
30
31 #####System Properties#####
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
35 #####
36 JAVA_HOME=C:\Program Files\Java\jdk1.8.0_73
37 WEBLOGIC_HOME=D:\Oracle\Middleware
38 WAS_HOME=D:\WAS

```

Refer to the ODT Dta Source Credentials and Properties table for more details.

Table 3-1 ODT Dta Source Credentials and Properties Details

| ODT Dta Source                            | Credentials and Properties                                 |
|-------------------------------------------|------------------------------------------------------------|
| <b>ODT Data Source Detail Credentials</b> | This section displays the following fields.                |
| OdtJdbcUrl                                | Jdbc Url<br>jdbc:oracle:thin:@10.184.xx.xx:1521:FCDEMO     |
| OdtDbUser                                 | DB User name                                               |
| OdtDbPassword                             | DP Password                                                |
| <b>Logger Properties</b>                  | This section displays the following fields.                |
| Logreqd                                   | <b>Y/N</b> . Default set to <b>N</b> .                     |
| Logpath                                   | Provide the path where the Logger files will be generated. |

Table 3-1 (Cont.) ODT Dta Source Credentials and Properties Details

| ODT Dta Source           | Credentials and Properties                                                                                                                                      |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Level                    | Provide the Logger Level.<br>This can be either DEBUG/INFO/WARNING/SEVERE.<br>Provide as DEBUG for writing detailed log.<br>Default value would be set to INFO. |
| <b>System Properties</b> | This section displays the following fields.                                                                                                                     |
| JAVA_HOME                | Maintain the Java installed location                                                                                                                            |
| WEBLOGIC_HOME            | Maintain the oracle weblogic installed location                                                                                                                 |
| WAS_HOME                 | Maintain the IBM websphere installed location                                                                                                                   |

### 3.3.2 ODTOperations.properties

This topic explains the ODTOperations.properties in detail.

#### ODTOperations.properties

Configure the Operations files as per Requirement.

The Following operations are supported in silent utility of ODT:

- **LOGIN**
- **SETRELEASE**: Setting Release and Environment Details
- **BULKGENERATION**: Bulk Generation of Radxml units
- **REFRESH**: Bulk refresh of radxml
- **SXML\_REFRESH**: Bulk refresh of Service Xmls
- **SXML\_UPDATER**: Bulk Updater of service Xmls based on the changes in radxml's
- **SXML\_BULKGENERATION**: Bulk Generation of web service artifacts.

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

For Example:

1. Operation = **LOGIN**
2. Operation= **SETRELEASE**
3. Operation= **REST\_GENERATION**

If the sequence of operations is as above, then **LOGIN**, **SETRELEASE**, and **REST\_GENERATION** Operations would be processed in the respective sequence.



#### Note:

**LOGIN** and **SETRELEASE** are mandatory operations to be performed.

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

For Example:

1. Operation = **LOGIN**
2. Operation= **SETRELEASE**
3. Operation= **REST\_GENERATION**

If the sequence of operations is as above, then **LOGIN**, **SETRELEASE**, and **REST\_GENERATION** Operations would be processed in the respective sequence.

**Note:**

**LOGIN** and **SETRELEASE** are mandatory operations to be performed.

## 1. LOGIN

**Figure 3-3 SilentODT Login Properties**

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

**Figure 3-4 SilentODT Login Properties**

**Table 3-2 Log in to Tool**

| SilentODT Login Properties | Description                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation                  | LOGIN                                                                                                                                                                                          |
| User Id                    | Specify the ODT User Id which is created in the ODT Application                                                                                                                                |
| Password                   | Specify the ODT Password which is created in the ODT Application. Encrypted using ODTPassEncryption.bat.<br>Refer section <b>Configure SilentODTUtility</b> for more details about encryption. |

## 2. SETRELEASE

**Note:**

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.

Figure 3-5 SilentODT Set Release Properties

```
6  ##Set Release and Environment for the User
7  ## 2.operation= SETRELEASE
8  ## 2.relCode=MODEL_BANK
9  ## 2.envCode=MODEL_BANK_DEV_ENV
10 ## 2.langCode=ENG
11
12
```

Table 3-3 Set Release and Environment for User

| SilentODT Set Release Properties | Description                                                               |
|----------------------------------|---------------------------------------------------------------------------|
| Operation                        | SETRELEASE                                                                |
| relCode                          | Specify the ODT Release Code which is created in the ODT Application.     |
| envCode                          | Specify the ODT Environment Code which is created in the ODT Application. |
| langCode                         | Specify the Lang code for the mentioned release code.                     |

### 3. BULKGENERATION

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 will be generated by the tool in this case.

#### Note:

Either of radxml List File or srcPath should be present. If both are present, then radxmlListFile parameter will 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:** Specify the path where the files will be generated.

**srcPath:** Specify the type of files to be generated. For Example: **UIXML, SYS\_JS, MAIN\_SPC, MAIN\_SQL, KERNEL\_SPC, KERNEL\_S**

**Figure 3-6 SilentODT Bulk Generation Properties**

```

12
13 ##Bulk Generation Utility
14 ## 3.operation=BULKGENERATION
15 ## 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 present. List File
                                           would be generated by the Tool in this case.
17 ##                                     Note that only either of radxmlListFile or srcPath should be present .
18 ##                                     If both are present ,then radxmlListFile would be considered for Bulk
Generation
19 ## 3.fileType=EXTENSIBLE                  -- EXTENSIBLE/NON_EXTENSIBLE/BOTH
20 ## 3.destpath=D:\RADTOOL                  -- destination Path
21 ## 3.gen = UIXML,SYS_JS                   -- Files to be Generated separated by coma. Possible entries are listed below
22 ##
UIXML,SYS_JS,MAIN_SPC,MAIN_SQL,KERNEL_SPC,KERNEL_SQL,CLUSTER_SPC,CLUSTER_SQL,CUSTOM_SPC,CUSTOM_SQL,UPLOAD_SPC,UPLOAD_SQ
L,
23 ##
UPLOAD_TRIGGER,UPLOAD_TABLE_DDL,XSD_FILES,MENU_DETAILS,LABEL_DETAILS,AMEND_DETAILS,SUMMARY_DETAILS,SCREEN_DETAILS,LOV_D
ETAILS,
24 ##
BLOCK_PK_COLS,CALL_FORM_DETAILS,BLOCK_DETAILS,DATASCR_DETAILS,FUNCTION_CALL_FORMS,GATEWAY_DETAILS,NOTIFICATION_DETAILS,
FUNCTION_PARAMETERS
25 ## NOTIFICATION_TRIGGER,PURGE_DETAILS,ARCHIVE_TBL_DEF
26

```

**Table 3-4 Bulk Generation Utility**

| Bulk Generation Utility Input | Bulk Generation Utility Output                      |
|-------------------------------|-----------------------------------------------------|
| radxmlListFile                | UIXML,SYS_JS,MAIN_SPC,MAIN_SQL,KERNEL_SPC,KERNEL_S  |
| srcPath                       | QL,                                                 |
| fileType                      | CLUSTER_SPC,CLUSTER_SQL,CUSTOM_SPC,CUSTOM_SQL,      |
| gen                           | UPLOAD_SPC,UPLOAD_SQL,UPLOAD_TRIGGER,UPLOAD_TABL    |
| destpath                      | E_DDL,                                              |
|                               | XSD_FILES,MENU_DETAILS,LABEL_DETAILS,AMEND_DETAILS, |
|                               | SUMMARY_DETAILS,SCREEN_DETAILS,LOV_DETAILS,         |
|                               | BLOCK_PK_COLS,CALL_FORM_DETAILS,BLOCK_DETAILS,      |
|                               | DATASCR_DETAILS,FUNCTION_CALL_FORMS,GATEWAY_DETAI   |
|                               | LS, NOTIFICATION_DETAILS,FUNCTION_PARAMETERS        |
|                               | NOTIFICATION_TRIGGER,PURGE_DETAILS,ARCHIVE_TBL_DEF  |
|                               | in destpath                                         |

**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).

- Child Refresh
- Screen Child Refresh
- 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.

**srcRelType:** Specify the release type of Source Radxmls list(KERNEL/CLUSTER/CUSTOM).

**baseRelType:** Specify the release type of base Radxmls list (KERNEL/CLUSTER/CUSTOM).

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

Figure 3-7 SilentODT Refresh Properties

```

28 ##Refresh Utility
29 ## 4.operation=REFRESH
30 ## 4.refreshType=SOURCE_REFRESH -- Either of CHILD_REFRESH/SCRCHILD_REFRESH/SOURCE_REFRESH
31 ## 4.srcFileList=D:\\REFRESH\\src.txt -- A txt File containing the List of all Sources radxmls. i.e radxmls which
has to be refreshed
32 ## 4.baseFileList=D:\\REFRESH\\base.txt -- A txt File containing the List of all base radxmls.
33 ## 4.srcRelType=CUSTOM -- Release Type of Source Radxmls: Either of KERNEL/CLUSTER/CUSTOM
34 ## 4.baseRelType=KERNEL -- Release Type of Base Radxmls:Either of KERNEL/CLUSTER/CUSTOM
35 ## Note that base and Src Release Types should be the same for Child and
screen Child Refresh
36 ## Base Release Type should be atleast one level below Src Release type for
SOURCE Refresh.
37 ## 4.destpath=D:\\RADTOOL
38
39

```

Table 3-5 Refresh Utility

| Refresh Utility Input | Refresh Utility Output         |
|-----------------------|--------------------------------|
| refreshType           | Refreshed Radxml's in destpath |
| srcFileList           |                                |
| baseFileList          |                                |
| srcRelType            |                                |
| baseRelType           |                                |
| destpath              |                                |

## 5. SXML\_BULKGENERATION

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:** Specify the source folder path which is optional (Tool will create radxmlListFile and xsdListFile by itself from the srcPath).

### Note:

If srcPath is provided, radxmlListFile and xsdListFile need not be provided.

**gen:** Specify the type of files to be generated (separated by coma). The options available are:

- IMPL\_FILE
- CONFIG\_FILES
- WSDL\_FILE,XSD\_FILES
- GW\_WS\_PROP\_FILES
- ANT\_BUILD

**nonExtServicesReqd:** Specify as Y/N whether Non-Extensible operations have to be included in the generated Components.

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



**validateXsds:** Specify as Y/N and the default value is Y. If the value is set to Y, all XSD will be validated by the tool.

**Figure 3-8 SilentODT Service XML Bulk Generation Properties**

```

40 ## Service XML Component 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.
45 ## Nonextensible 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
47 ## Note that if srcPath is provided,radxmlListFile and
xsdListFile need not be provided
48 ## 5.gen=IMPL_FILE,CONFIG_FILES,WSDL_FILE,XSD_FILES -- Files to be generated. Possible entries are Listed
below
49 ##
IMPL_FILE,CONFIG_FILES,WSDL_FILE,XSD_FILES,GW_WS_PROP_FILES,ANT_BUILD
50 ## 5.nonExtServicesReqd=Y -- Y/N Specifies whetherNonExtensible Operations has to
included in the Generated Components
51 ## 5.destpath=D:\RADTOOL -- destination Path
52 ## 5.validateXsds=Y -- validate the xsds Y/N

```

**Table 3-6 SilentODT Service XML Bulk Generation Properties**

| Service XML Component Generator Input | Service XML Component Generator Output                                                |
|---------------------------------------|---------------------------------------------------------------------------------------|
| sxmlListFile                          | IMPL_FILE,CONFIG_FILES,WSDL_FILE,XSD_FILES,GW_WS_PR<br>OP_FILES,ANT_BUILD in destpath |
| radxmlListFile                        |                                                                                       |
| xsdListFile                           |                                                                                       |
| srcPath                               |                                                                                       |
| baseRelType                           |                                                                                       |
| destpath                              |                                                                                       |
| validateXsds                          |                                                                                       |

## 6. SXML\_UPDATER

This feature can be used to update the Service XMLs with the latest data from Radxmls. Following details will be updated. Any addition, deletion or modification of operation codes in function Id would be updated in Service XML.

- If any function Id is removed from the service (specified in radxml); then the same would be removed from Service XML.
- 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. Specify the same file path.

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

 **Note:**

If srcPath is provided, radxmlListFile and sxmlListFile need not be provided.

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

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

**Figure 3-9 SilentODT Service XML Updater Properties**

```

56 ## Service XML Updater
57 ## 6.operation=XML UPDATER
58 ## 6.sxmlListFile=D:\ODT123\TEST\srcFile.TXT          -- List Of Absolute path of all sxml files in a text file
59 ## 6.radxmlListFile=                                -- A txt File containing the List of all radxmls.
60 ## 6.xsdListFile=                                    -- A txt File containing the List of all xsds. This
parameter is required only if NonExt Operations are Required.
61 ##
62 ## 6.srcPath=E:\EXEC\Kernel\FLEXCUBE_Kernel\FCUBS_12.0.0\MAIN -- Src Path. Tool will create radxmlListFile and
xsdListFile by itself from the srcPath if provided
63 ##
xsdListFile need not be provided                                Note that if srcPath is provided,radxmlListFile and
64 ## 6.destpath=D:\RADTOOL                                -- destination Path
65 ## 6.confirmStage=SINGLE_STAGE_UPDATE
SINGLE_STAGE_UPDATE/UPDATE_FROM_STAT_FILES/STAT_FILE_GEN
66 ##
one step process.
67 ##
Service, it will not be updated.
68 ##
2 Steps. generates Stat Files in destPath.
69 ##
FunctionId's to Service Xmls
70 ##
update the Service Xml based on the confirmation
71 ##
generated in previous Stage.Stat Files has to be placed in the destPath
72 #

```

**Table 3-7 SilentODT Service XML Updater Properties**

| Service XML Updater Input                                                            | Service XML Updater Output        |
|--------------------------------------------------------------------------------------|-----------------------------------|
| sxmlListFile<br>radxmlListFile<br>xsdListFile<br>srcPath<br>destpath<br>confirmStage | updated Service XML's in destpath |

## 7. SXML\_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.



 **Note:**

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

**srcRelType:** Specify the release type of Source Radxmls list(KERNEL/CLUSTER/CUSTOM).

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

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

**Figure 3-10    SilentODT Service XML Refresh Properties**

```
## Service XML Refresh
## 7.operation=XML_REFRESH
## 7.srcFileList=D:\REFRESH\src.txt    -- A txt File containing the List of all Sources xmls. i.e xmls which has
to be refreshed
## 7.baseFileList=D:\REFRESH\base.txt  -- A txt File containing the List of all base xmls.
## 7.srcRelType=CUSTOM                -- Release Type of Source xmls; Either of KERNEL/CLUSTER/CUSTOM
## 7.baseRelType=KERNEL               -- Release Type of Base xmls; Either of
KERNEL/CLUSTER/CUSTOM##
##                                     Base Release Type should be atleast one level below Src Release type for
SOURCE Refresh.
## 7.destpath=D:\RADTOOL
```

**Table 3-8    SilentODT Service XML Refresh Properties**

| Service XML Refresh Input                                                         | Service XML Refresh Output          |
|-----------------------------------------------------------------------------------|-------------------------------------|
| operation<br>srcFileList<br>baseFileList<br>srcRelType<br>baseRelType<br>destpath | Refreshed Service XML's in destpath |

### 3.3.3 GW\_CONFIG.properties

This topic briefs GW\_CONFIG.properties.

#### GW\_CONFIG.properties

The parameters of this property files are used to generate gateway web service property files. This configuration file is optional. Specify only if Gateway Web service property files (GW\_WS\_PROP\_FILES) is being generated as part of Service XML Bulk generation operation.

**EJB\_APP\_SERVER:** Specify the application server name in which ear is deployed.

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

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

**EJB\_SERVER\_USERNAME:** Specify the user name of the application server where the EJB application is deployed.

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

**GW\_WS\_LOGGER\_PROP\_FILE\_PATH:** Specify the location of Logger Property File in the server where web service is to be deployed. Specify the path including the file name. For 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:** Specify the location where debug files will be written.

**GW\_WS\_PROP\_FILE\_PATH:** Specify the path where property file is placed in the server. This will be referred in web.xml of web service property file. For Example: D:/Kernel11.1/GW\_WS/prop/ (Windows) /oraint1/kernel/FC120INS\_DEBUG/Gateway/GWWS/prop (Linux or UNIX).

**Figure 3-11 SilentODT GW Config Properties**

```
#####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,WEBSPPHERE)
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/Gateway11.0/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
```

**Table 3-9 SilentODT GW Config Properties**

| SilentODT GW Config Properties | Description                                                                                    |
|--------------------------------|------------------------------------------------------------------------------------------------|
| <b>EJB_APP_NAME</b>            | Specify the name of the deployed EJB Application.                                              |
| <b>EJB_APP_SERVER</b>          | Specify the name of the deployed EJB Application.                                              |
| <b>EJB_JNDI_NAME</b>           | Specify the EJB JNDI Name is the reference name of the ejb by which the ejb has been deployed. |
| <b>EJB_SERVER_URL</b>          | Specify the Application server IP Address & port where the EJB application is deployed.        |
| <b>EJB_SERVER_USERNAME</b>     | Specify the User Name of the application server where the EJB application is deployed.         |
| <b>EJB_SERVER_PASSWORD</b>     | Specify the Password of the application server where the EJB application is deployed.          |

Table 3-9 (Cont.) SilentODT GW Config Properties

| SilentODT GW Config Properties     | Description                                                                                                                                                                                                                                                                                                  |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GW_WS_LOGGER_PROP_FILE_PATH</b> | Specify the location of Logger Property File path in the server where web service is to be deployed. Provide path including the file name.<br><b>Example:</b> D:/Kernel11.1/GW_WS/config/gw_ws_logger.properties (Windows path) /oraint1/kernel//Gateway/GWWS/config/gw_ws_logger.properties (Linux or UNIX) |
| <b>GW_WS_LOGGER_FILE_PATH</b>      | Specify the location where debug files will be written.<br>For Example: D:/Kernel11.1/GW_WS/log/ (Windows) /oraint1/kernel/FC120INS_DEBUG/Gateway/GWWS/log (Linux or Unix).                                                                                                                                  |
| <b>GW_WS_PROP_FILE_PATH</b>        | Specify the path where property file is placed in the server. This will be referred in web.xml of web service property file.<br><b>For Example:</b> D:/Kernel11.1/GW_WS/prop/ (Windows) /oraint1/kernel/FC120INS_DEBUG/Gateway/GWWS/prop (Linux or UNIX).                                                    |

## 3.4 Generation of Web service Artifacts through SilentOdtUtility

The topic provides the instructions to generate 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.

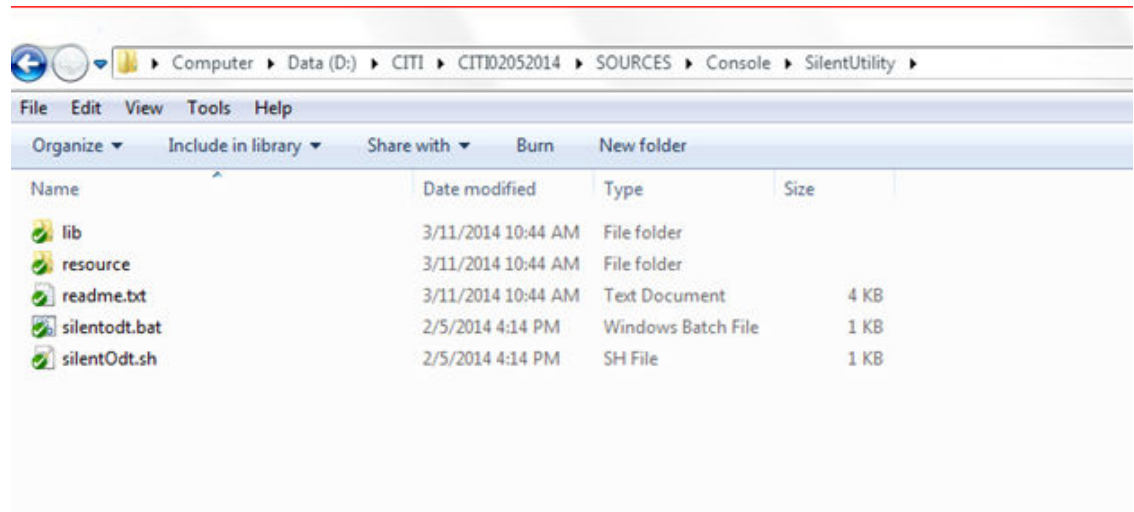
The following operations needs to be configured in OdtOperations.properties in respective sequence.

- **LOGIN**
- **SETRELEASE**
- **SXML\_BULKGENERATION**

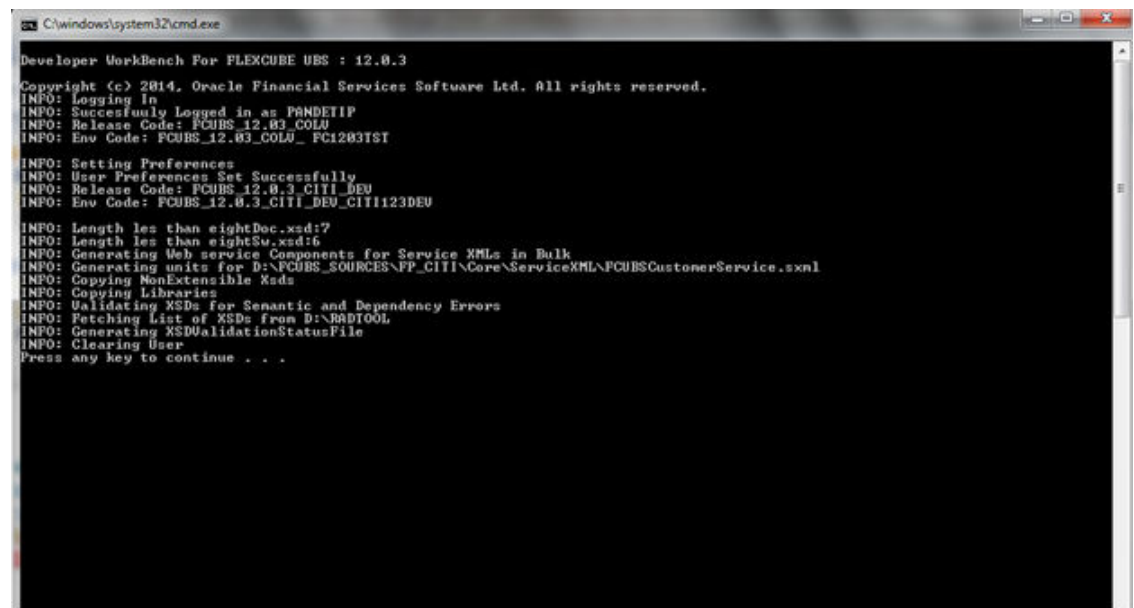
Specify the following values for gen parameter of SXML\_BULKGENERATION IMPL\_FILE, CONFIG\_FILES, WSDL\_FILE, XSD\_FILES, GW\_WS\_PROP\_FILES, ANT\_BUILD.

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

**Figure 3-12 SilentODT Sources**



**Figure 3-13 SilentODT Running in Command Prompt**



The following service artifacts files will be generated in the destination directory specified after successful built operation.

**Table 3-10 Files and Description**

| Files                        | Description            |
|------------------------------|------------------------|
| <Service Name>Src\*Impl.java | IMPL files for service |
| <Service Name>WSDL\*.wsdl    | WSDL files for service |
| <Service Name>Config\*.xml   | Config files           |
| <Service Name>XSD\*.xsd      | Service specific xsd's |

**Table 3-10 (Cont.) Files and Description**

| Files                                                                                                        | Description                                                                         |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <Service Name>Common\*.xsd's                                                                                 | Common XSD's ( call forms ) part of service                                         |
| <Service Name>\<Service Name>\META-INF\application.xml<br><Service Name>\<Service Name>\META-INF\MANIFEST.MF | Config XML's for building the Web service                                           |
| <Service Name>\<Service Name>\commonscodec-1.2.jar                                                           | Utility Jar for building the web service                                            |
| <Service Name>\<Service Name>\wscommon.jar                                                                   | Utility Jar for building the web service                                            |
| Sample Ant file                                                                                              | For building service ear file (Can be modified by Dev team as per Folder structure) |

### Figure 3-14 SilentODT Generated Files Tree Structure



- **Log Files**  
This topic gives an overview on Log Files.

- [Ant Build Scripts](#)  
This topic gives an overview on Ant Build Scripts.
- [Gateway Property Files](#)  
This topic gives an overview on Gateway Property files.

## 3.4.1 Log Files

This topic gives an overview on Log Files.

The following files are being generated:

- ServiceGenerationStatus.csv
- XSDValidationErrors.csv
- Utility Log File

### ServiceGenerationStatus.csv

The generation status will be saved in the 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

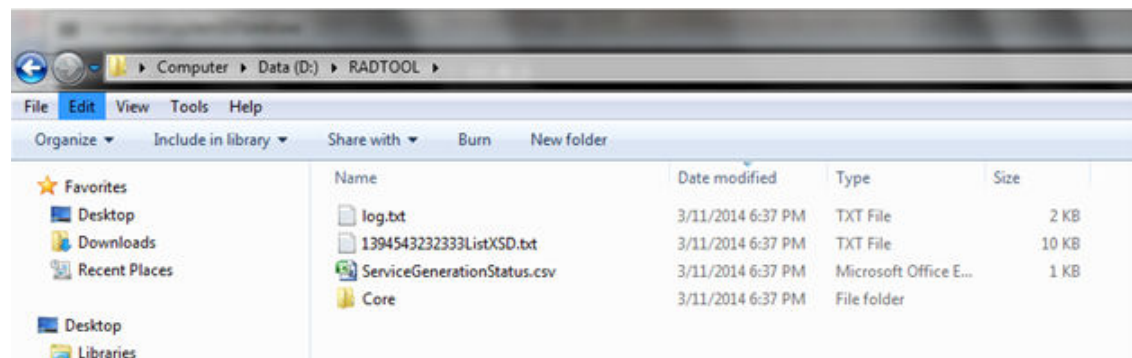
The Log File of the utility will be generated in the path configured in SilentOdt.properties. This can be used in case of any troubleshooting.



#### Note:

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

**Figure 3-15 SilentODT Generated log Files**



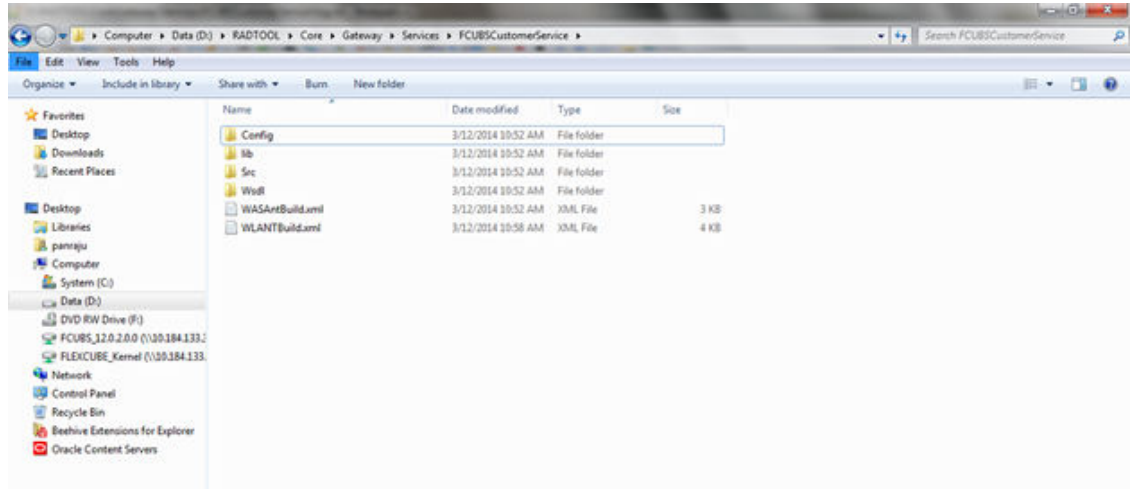
## 3.4.2 Ant Build Scripts

This topic gives an overview on Ant Build Scripts.

Tool will generate the sample ant scripts for weblogic and websphere 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 weblogic server

**Figure 3-16 SilentODT Generated Files Ant Build Files**



### 3.4.3 Gateway Property Files

This topic gives an overview on Gateway Property files.

Gateway property files will be generated in GW\_WS folder inside the destination path. The following files will be generated.

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