Web service & Silent Utility for generation of Web service Artifacts Oracle Banking Trade Finance Release 14.6.0.0.0 [May][2022]



Contents

| 2 |
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| |
| 2 |
| 2 |
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1 Preface

This document describes the webservice development using Oracle FLEXCUBE Development Workbench for Universal Banking.

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 Universal Banking

3 Service XML

Oracle FLEXCUBE Development Workbench provides the developer with a user friendly console fordefining a gateway service of FCUBS.

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 Followingartifacts 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) partof service |
| <service name="">\<service name="">\META- INF\application.xml</service></service> | Config XML's for building theWeb service |
| <service name="">\<service name="">\META- INF\MANIFEST.MF</service></service> | |
| <service name="">\<service name="">\commons- codec-1.2.jar</service></service> | Utility Jar for building the web service |
| <service name="">\<service name="">\wscommon.jar</service></service> | 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 allowsdelete operation only.

3.1 Process Steps

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

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



Fig 3.1: 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.

| Services | | | | - |
|---------------------|--------------|------------|---------------|----------------|
| | | | | |
| Action New 🔻 | Service Name | N E | | |
| Save XML Path | | | | |
| | | | | |
| Service Description | | Module | 25 | |
| | | | |) |
| Function id Details | | | | Operations + - |
| Function ID | Ext/Non-Ext | | Type Xsd Name | |
| | EXUNUII-EXL | | Type Asu Name | |
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Fig 3.2: Service Screen

While loading an Existing Service in ODT

| | Choose File to Upload | | | | | 23 | | | | |
|-------------|------------------------|--------------------------|-------------------|-----------|-----------------|--------|----|-------------|-----------|---------|
| | G v k Computer + Dat. | a(D:) + citi + Service + | | | Search Service | Q | | | | |
| Upload File | Organize - New folder | | | | ii≣ ▼ | 0 10 | | | Operation | s + - |
| | My Documents | ^ Name | Date modified | Type | Size | | T) | pe Xsd Name | | |
| | 🔛 My Music | 2 FCUBSACService | 3/10/2014 7:01 PM | SXML File | 4 KB | | | | | |
| | 😫 My Pictures | FCUBSBLService | 3/10/2014 7:01 PM | SIML File | 1 KB | - D | | | | |
| | My Videos | FCUBSBrokerService | 3/10/2014 7:01 PM | SXML File | 8 KB | | | | | |
| | Ji Oracle | FCUBSCAService | 3/10/2014 7:01 PM | SXML File | 2 KB | | | | | |
| | Saved Games | 2 FCUBSCcyService | 3/10/2014 7:01 PM | SXML File | 14 KB | | | | | |
| | Searches | 2 FCUBSCFService | 3/10/2014 7:01 PM | SXML File | 14 KB | 1 | | | | |
| | (N Computer | 2 FCUBSCoreService | 3/10/2014 7:01 PM | SXML File | 18 KB | | | | | |
| | 💒 System (C:) | 2 FCUBSCPGServices | 3/10/2014 7:01 PM | SXML File | 3 KB | | | | | |
| | 👝 Data (D:) | 2 FCUBSCustomerService | | SXML File | 7 KB | | | | | |
| | apache-ant-1.7.0-bin | FCUESDEService | 3/10/2014 7:01 PM | SXML File | 15 KB | | | | | |
| | 🐊 apache-ant-1.9.2-bin | 2 FCUBSGLService | | SXML File | 5 KB | | | | | |
| | app | 2 FCUBSICService | | SXML File | 10 KB | | | | | |
| | L CALLFORM_PATH | 2 FCUBSIFService | | SXML File | 2 KB | | | | | |
| | 🗼 citi | 2 FCUBSISService | 3/10/2014 7:01 PM | SXML File | 7 KB | | | | | |
| | Service | FCUBSLeadService | | SXML File | 1 KB | | | | | |
| | 🔐 стт. 12.0 | - 2 FCUBSLMService | 3/10/2014 7:01 PM | | 11 KB | | | | | |
| | File name: FC | UBSCoreService | | | All Files (*.*) | - | | | | |
| | | | | | Open | Cancel | | | | |
| | U | | | | | | | | | |
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Fig 3.3: Loading Service XML



| ervi | ce Description Core Service | | Module Core | |
|------|-----------------------------|----------------|---------------------------------------|--------------|
| | Function id Details | | Ор | erations 🕂 🗕 |
| | Function ID | Ext/Non-Ext | Type Xsd Name | |
| | STDCOUNT | Non-Extensible | ST-STCountryCodes-Types.xsd | |
| | CODSCHME | Non-Extensible | CO-RPSchMnt-Types.xsd | |
|] | CODBENFT | Non-Extensible | CO-RPBenPlan-Types.xsd | |
|] | CODELPLN | Non-Extensible | CO-RPEIPIan-Types.xsd | |
|] | STDLCHOL | Non-Extensible | ST-LCHoliday-Types.xsd | |
|] | CSDDEVPR | Extensible | CS-Project-Types.xsd | |
|] | CSDACCTR | Extensible | CS-TransferAccount-Types.xsd | |
|] | SMDUSHOL | Extensible | SM-UserHoliday-Types.xsd | |
|] | CSDACTRP | Extensible | CS-AccountBranchMaintenance-Types.xsd | |
|] | CSDDEVDT | Extensible | CS-Developer-Types.xsd | |
|] | CSDECASC | Extensible | CS-Csdecasc-Types.xsd | |
|] | CSDSNCSC | Extensible | CS-Csdsncsc-Types.xsd | |
| | CSDACLTR | Extensible | CS-AccountClassTransfer-Types.xsd | |

Fig 3.4: 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 asNew If the action is load then corresponding Service xml has to be loaded using browser option in Save XmlPath; 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)



| ices | | | | | |
|----------------------------|---------------------|--------------|--------|---------------|--------------|
| | | | | | |
| Action New 💌 | | Service Name | IN | | |
| Save XML Path | | | | | |
| ce Name | | × | Module | ME | |
| Service Name FCUBSCoreServ | ice | | | | |
| Service Description | | | | | Operations + |
| | | Ext/Non-Ext | | Type Xsd Name | |
| | Search Reset | | | | |
| | | | | | |
| | << < 1of1 >>> | | | | |
| Service Name | Service Description | | | | |
| JBSCoreService Core | Service | | | | |
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Fig 3.5: 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 fetchvalues 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



| Services | | | | | | - > |
|--------------------------------|-------------------|--------------|----------|--------------|----------|--------|
| | | | | | | |
| Action New 👻 | Service Name FCUE | SCoreService | N | | | |
| Save XML Path | | | | | | |
| Module Code | × | Module | | | | |
| Module Code ST | | | | | | |
| Module Description | | | | | Operatio | ns 🕂 🗕 |
| | Ext/Non-Ext | | | Type Xsd Nam | | |
| Search Re | set | | | | | |
| << 1of1 > | | | | | | |
| Module Code Module Description | | | | | | |
| ST Static Maintenance | | | | | | |
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Fig 3.6: 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 aBrowse button to it so that user can browse the Service xml and load it.



| Services | | | | _ : |
|---------------------|-----------------|-------------------------------|---------------|----------------|
| | | | | |
| A | ction New 🔻 | Service Name FCUBSCoreService | / | |
| Save XML | Path D:\RADTOOL | | | |
| Service Description | Core Service | Module | ST | |
| | | | | |
| Function id De | etails | | | Operations + - |
| | Function ID | Ext/Non-Ext | Type Xsd Name | |
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Fig 3.7: 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 STDCIF and not STGCIF



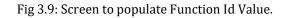
| Services | | | _ |
|--------------------------------|------------------------------|---------------|----------------|
| | | | |
| Action New 🔻 | ervice Name FCUBSCoreService | <u> </u> | |
| Save XML Path D/RADTOOL | | | |
| Function Name~Module X | Module | ST | |
| Function Name STDCIF | | | |
| Function Name STDCIF Module ST | | | Operations + - |
| | Ext/Non-Ext | Type Xsd Name | * |
| Search Reset | | | |
| | | | |
| Function Name Module | | | |
| STDCIF ST | | | |
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Fig 3.8: Lov to populate Function Id.

Extensible/Non-Extensible:

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

| Servic | | | | | | | | | 1 |
|--------|------------------|----------------|---------------------|-------------|------------|---------------|------------|-----|---|
| | | | | | | | | | × |
| | Acti | ion New 🔻 | Service Name FCUBSC | CoreService | * E | | | | |
| | Save XML P | ath D:\RADTOOL | | | | | | | |
| | vice Description | Core Service | | Module | ST. | | | | |
| Se | vice Description | Core Service | | Module | 51 | | | | |
| | | | | | | | | 1 | |
| | Function id Det | | | | | | Operations | + - | |
| | | Function ID | Ext/Non-Ext | | | Type Xsd Name | | | ^ |
| | STDCIF | 1 | Extensible | | | | | | |
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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.

| Services | | | | | | | | | | - |
|--------------------------------|-------|---------|--------|-----|---|----------|------|--------|--------|----------|
| | | | | | | | | | | |
| Action New Service Name FCUB | SCORE | SERVICE | | *\$ | | | | | | |
| Save XML Path D VRADTOOL | | | | | | | | | | |
| Operation Details X | | Mod | ule SI | | | | *5 | | | |
| Load Radxml BROWSE | | | | | | | | | | |
| Summary Query Operation | | | | | | | | Operal | ions 🚽 | |
| | sible | | | | 1 | Type Xsd | Name | | | <u>^</u> |
| Default Operations | | | | | | | | | | |
| Operation Code | | | | | | | | | | |
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| Ok | | | | | | | | | | |
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Fig 3.10: 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 XMLand load it to populate operations



| Services | | | | | | | | | | | | | | | | | | |
|--------------|--------|----------|----|------|------|---|---------|----------|--------|---------|--------|-----|--|--------|---------|-------|-------|------------|
| | | Action N |)L | | | | Servi | ce Name | FCUBS | CORESER | VICE | ×\$ | | | | | | r × |
| Operation De | etails | | | | | | | | × | | Module | SI | | | *\$ | | | |
| Upload | Load F | Radxml | | BR | DWSE | × | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Opera | lions | + - |
| | | | | Dere | wse | | Outersh | Operatio | | sible | | | | Туре Х | sd Name | | | |
| | Uploa | ad File | | Bro | wse | | Delauit | Operatio | mş | | | | | | | | | |
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Fig 3.11: Screen to Load Radxml.

Default Operations:

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

| Save XML Path D RADTOOL | | | | *5 | | | | | | | |
|-----------------------------------|-------|-----|--------|---------|-----------|---|---------|------|----------|-------|--|
| ation Details | × | Mod | ule SI | | | | | *5 | | | |
| Load Radxml STDCIF_RAD.xml BROWSE | | | | | | | | | | | |
| Summary Query Operation | | | | | | | | | Operatio | ons 🕂 | |
| | sible | | | | | | ype Xsd | Name | | | |
| Default Operations | | | | Custome | -Types.xs | d | | | | | |
| Operation Code | | | | | | | | | | | |
| eryCustomer | | | | | | | | | | | |
| ateCustomer | | | | | | | | | | | |
| lifyCustomer | | | | | | | | | | | |
| norizeCustomer | | | | | | | | | | | |
| eteCustomer | | | | | | | | | | | |
| seCustomer | | | | | | | | | | | |
| openCustomer | | | | | | | | | | | |
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Fig 3.12: Screen to Default Operations..

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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: FCUBSCoreService.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 BinaryCode License agreement.

Instructions:

Installer requires JDK 1.7.xx_xx version to be downloaded in the system and the sameShould be set as environmental variable

• Apache Ant 1.7.1

Instructions:

Installer requires ANT 1.7.1 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 theread 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.

| e Edit View Tools Help | | | |
|---------------------------------|---------------------|--------------------|------|
| Organize 👻 Include in library 👻 | Share with 🔻 🛛 Burn | New folder | |
| Name | Date modified | Туре | Size |
| 🌛 lib | 3/11/2014 10:44 AM | File folder | |
| 🏂 resource | 3/11/2014 10:44 AM | File folder | |
| 🔊 readme.txt | 3/11/2014 10:44 AM | Text Document | 4 KB |
| 🐼 silentodt.bat | 2/5/2014 4:14 PM | Windows Batch File | 1 KB |
| 🐼 silentOdt.sh | 2/5/2014 4:14 PM | SH File | 1 KB |

Fig 4.2.1: 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.jarAlso

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 forunix). 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
4 ##release ==> Release of the product specified
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
L1 ReleaseMonth=May
L2 ReleaseYear=2016
13
L4 ###ODT DataSource Credentials
16 OdtJdbcUrl=040fjmATqNKRRdNFP9UR3eeXUUMaPnZJ1gtHVtXkIyVEgM1qCkuNqcIs96vR4NFq
17 OdtDbUser=ODT121
L8 OdtDbPassword=ITgBkLEJpG06AuYE6jJkmg==
19 SymmetricKey=oraclefinancials
20
22 #logregd 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 logreqd = 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 4.3.1: | SilentODT | Properties. |
|------------|-----------|-------------|
|------------|-----------|-------------|

| OD. | Data Source Detail Credentials |
|---------------|---|
| OdtJdbcUrl | Encrypted jdbc url |
| | Sample Jdbc Url (before encrypting) |
| | jdbc:oracle:thin:@10.184.xx.xx:1521:FCDEMO |
| OdtDbUser | DB User name |
| OdtDbPassword | The encrypted password. |
| SymmetricKey | The key used when encrypting jdbc url and password. This |
| | should have exactly 16 characters. |
| | Note: User must use same key for both JDBC URL and password |
| | encryption |
| | 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 SEVERE/WARNING/INFO/CONFIG/FINE/FINER/FINEST Provide as FINEST for writing detailed log. Default value would be set to INFO | | | | |
|--------------------|---|--|--|--|--|
| System Properties: | | | | | |
| JAVA_HOME | Maintain the Java(JDK) installed location | | | | |
| WEBLOGIC_HOME | Maintain the oracle weblogic installed location | | | | |
| WAS_HOME | Maintain the IBM websphere installed location | | | | |

Note: WEBLOGIC_HOME and WAS_HOME are 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

- 8. LOGIN
- 9. SETRELEASE: Setting Release and Environment Details
- 10. BULKGENERATION: Bulk Generation of Radxml units
- 11. REFRESH: Bulk refresh of radxml
- 12. SXML_REFRESH: Bulk refresh of Service Xmls
- 13. SXML_UPDATER: Bulk Updater of service Xmls based on the changes in radxml's
- 14. 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 4.3.3.1: 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

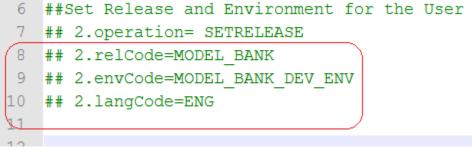


Fig 4.3.3.2: SilentODT Set Release Properties

| 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. Providesame file path
- **srcPath**: source Path Refers to the path where all radxml's are presented .List File wouldbe 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

| 12 | | |
|------|--|---|
| 13 | ##Bulk Generation Utility | |
| 14 (| ## 3.operation=BULKGENERATION | |
| 15 | <pre>## 3.radxmlListFile=D:\ODT123\ABC.TXT</pre> | 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 | |
| 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 seperated by coma. Possible entries are listed below |
| 22 | ## | |
| | UIXML, SYS_JS, MAIN_SPC, MAIN_SQL, KERNEL_S | PC,KERNEL_SQL,CLUSTER_SPC,CLUSTER_SQL,CUSTOM_SPC,CUSTOM_SQL,UPLOAD_SPC,UPLOAD_SQ |
| | L, | |
| 23 | ## | |
| | UPLOAD TRIGGER, UPLOAD TABLE DDL, XSD FILM | S, MENU_DETAILS, LABEL_DETAILS, AMEND_DETAILS, SUMMARY_DETAILS, SCREEN_DETAILS, LOV_D |
| | ETAILS, | |
| 24 | ## | |
| | | ETAILS, DATASCR_DETAILS, FUNCTION_CALL_FORMS, GATEWAY_DETAILS, NOTIFICATION_DETAILS, |
| | FUNCTION_PARAMETERS | |
| 25 | ## NOTIFICATION_TRIGGER, PURGE_DETAILS | ARCHIVE_TBL_DEF |
| 26 | | |

Fig 4.3.3.3: 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 keepingthe 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.

srcRelType: 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

| 0 ## 4.refreshType=SOURCE REFRESH | Either of CHILD REFRESH/SCRCHILD REFRESH/SOURCE REFRESH |
|--|--|
| <pre>1 ## 4.srcFileList=D:\\REFRESH\\src.txt has to be refreshed</pre> | A txt File containing the List of all Sources radxmls. i.e radxmls whic |
| 2 ## 4.baseFileList=D:\\REFRESH\\base.txt | A txt File containing the List of all base radxmls. |
| 3 ## 4.srcRelType=CUSTOM | Release Type of Source Radxmls; Either of KERNEL/CLUSTER/CUSTOM |
| 4 ## 4.baseRelType=KERNEL | Release Type of Base Radxmls; Either of KERNEL/CLUSTER/CUSTOM |
| 5 ## screen Child Refresh | Note that base and Src Release Types should be the same for Child and |
| 5 ## SOURCE Refresh. | Base Release Type should be atleast one level below Src Release type for |
| 7 ## 4.destpath=D:\\RADTOOL | |

Fig 4.3.3.4: 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 thoseservices

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 byitself 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 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 fil |
| 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 Require | d. |
| 45 | ## | 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 | |
| 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 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 4.3.3.5: SilentODT Service XML Bulk Generation Properties

| Service XML Component Generator | | | | |
|---------------------------------|---|--|--|--|
| Input | output | | | |
| sxmlListFile | | | | |
| radxmlListFile | IMPL_FILE,CONFIG_FILES,WSDL_FILE,XSD_FILES,GW_WS_PROP_FIL | | | |
| xsdListFile | ES,ANT_BUILD in destpath | | | |
| srcPath | | | | |
| nonExtServicesReqd | | | | |
| 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 Id would be updated in Service XML
- 2) If any **function ld 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 thoseservices . Provide same file path

srcPath: Provide source folder path. This field is optional (Tool will create radxmlListFile and SxmlListFileby 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 | |
| 8 | ## 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. |
| 60 | ## 6.xsdListFile= | A txt File containing the List of all xsds. This |
| | parameter is required only if NonExt Operations are Required | d. |
| 1 | ## | |
| 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 | |
| 3 | ## | Note that if srcPath is provided, radxmlListFile and |
| | xsdListFile need not be provided | |
| 4 | ## 6.destpath=D:\\RADTOOL | destination Path |
| 5 | ## 6.confirmStage=SINGLE_STAGE_UPDATE | |
| | SINGLE_STAGE_UPDATE/UPDATE_FROM_STAT_FILES/STAT_FILE_GEN | |
| 6 | ## | SINGLE_STAGE_UPDATE : Updation of service Xmls in |
| | one step process. | |
| 7 | ## | If any New function id is found mapped to a |
| | Service, it will not be updated. | |
| 8 | ## | STAT_FILE_GEN : First Stage if Updation carried in |
| | 2 Steps. generates Stat Files in destPath. | |
| 9 | ## | User can decide whether to update new |
| | FunctionId's to Service Xmls | |
| 0 | ## | UPDATE_FROM_STAT_FILES : Second Step . Utility will |
| | update the Service Xml based on the confirmation | |
| 1 | ## | information provided by User in the Stat files |
| | generated in previous Stage.Stat Files has to be placed in t | the destPath |
| 2 | # | |

| Fig 4.3.3.6: | SilentODT Service XML U | pdater 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 subversion 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 filepath .

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, srcReIType would be CUSTOM and baseReIType can be either KERNEL/CLUSTER depending on the base source type

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

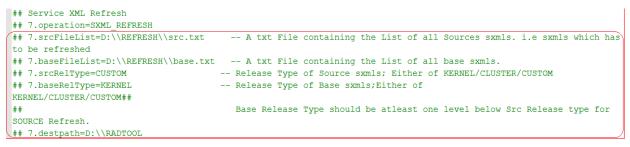


Fig 4.3.3.7: SilentODT Service XML Refresh Properties

| | 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)

##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/oral1gas/Gateway11.0/GW_WS/config/gw_ws_logger.properties ##Location where Debug Files will be written GW_WS_LOGGER_FILE_PATH=/home/oral1gas/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/oral1gas/Gateway11.0/GW_WS/prop

XSD_PATH=/home/orallgas/Gateway11.0/GW_WS/XSD

Fig 4.3.4.1: SilentODT GW Config Properties

| GW_CONFIG | | | | |
|----------------|--|--|--|--|
| EJB_APP_NAME | Provide Name of the deployed EJB Application | | | |
| EJB_APP_SERVER | Provide Name of the deployed EJB Application | | | |

Page 22 of 30

| EJB_JNDI_NAME | <i>EJB JNDI Name</i> 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 willbe 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 he 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.



| e Edit View Tools Help | | | |
|---------------------------------|---------------------|--------------------|------|
| Organize 👻 Include in library 💌 | Share with 🔻 🛛 Burn | New folder | |
| Name | Date modified | Туре | Size |
| 💰 lib | 3/11/2014 10:44 AM | File folder | |
| 🏂 resource | 3/11/2014 10:44 AM | File folder | |
| 👔 readme.txt | 3/11/2014 10:44 AM | Text Document | 4 KB |
| 🔊 silentodt.bat | 2/5/2014 4:14 PM | Windows Batch File | 1 KB |
| 🔊 silentOdt.sh | 2/5/2014 4:14 PM | SH File | 1 KB |

Fig 4.4.1: SilentODT Sources

This displays the screen as follows.

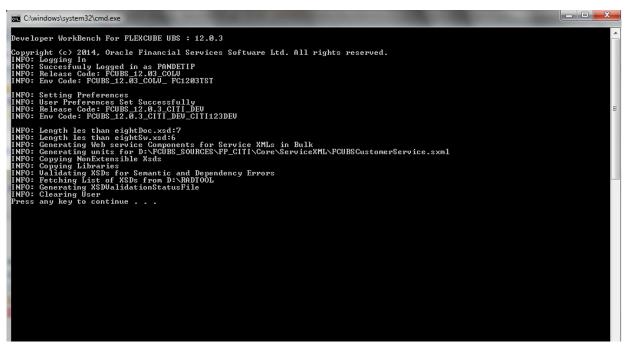


Fig 4.4.2: SilentODT Running in Command Prompt

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) partof service |
| <service< th="">Name>\<service< th="">Name>\META-INF\application.xml<service< td="">Name>\<service< td="">Name>\META-INF\MANIFEST.MFName>\META-</service<></service<></service<></service<> | Config XML's for building theWeb service |
| <service name="">\<service name="">\commons- codec-1.2.jar</service></service> | Utility Jar for building the web service |
| <pre>\</pre> Service Name>\wscommon.jar | Utility Jar for building the web service |
| Sample Ant file | For building service ear file (Can be modified by Dev teamas per Folder structure) |





Fig 4.4.3: 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

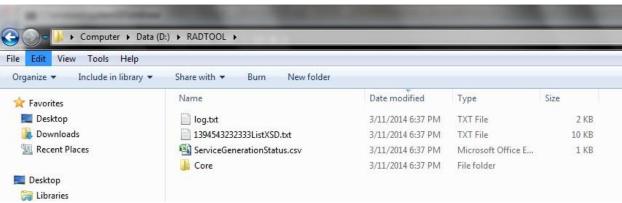


Fig 4.4.1.1: SilentODT Generated log Files.

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 earfile . WLANTBuild.xml – Ant script for web logic server WASAntBuild.xml – Ant Script for web sphere server



| Edit View Tools Help | | | | | |
|---------------------------------|------------------------------|--------------------|-------------|------|---|
| ganize 💌 Include in library 💌 | Share with 🔻 🛛 Burn 🛛 New fo | lder | | | 1 |
| Favorites | Name | Date modified | Туре | Size | |
| 📃 Desktop | 🔒 Config | 3/12/2014 10:52 AM | File folder | | |
| 〕 Downloads | lib | 3/12/2014 10:52 AM | File folder | | |
| 🔛 Recent Places | Src . | 3/12/2014 10:52 AM | File folder | | |
| | 🐌 Wsdl | 3/12/2014 10:52 AM | File folder | | |
| Desktop | WASAntBuild.xml | 3/12/2014 10:52 AM | XML File | 3 KB | |
| 🗃 Libraries | WLANTBuild.xml | 3/12/2014 10:58 AM | XML File | 4 KB | |
| 🔒 panraju | | | | | |
| Computer | | | | | |
| 🏭 System (C:) | | | | | |
| Data (D:) | | | | | |
| DVD RW Drive (F:) | | | | | |
| FCUBS_12.0.2.0.0 (\\10.184.133. | | | | | |
| PLEXCUBE_Kernel (\\10.184.133 | | | | | |
| Network | | | | | |
| Control Panel | | | | | |
| Recycle Bin | | | | | |
| Beehive Extensions for Explorer | | | | | |
| Oracle Content Servers | | | | | |

Fig 4.4.1.2: 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





Development Workbench – Service XML Development artifacts

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