SOA Based Service Catalog for Oracle Utilities ICS Adapter

Implementation Guide

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SOA Based Service Catalog for Oracle Utilities ICS Adapter, Release 12.1 Implementation Guide

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Preface

This document is intended for anyone implementing the SOA Based Service Catalog for Oracle Utilities ICS Adapter.

Documentation and Resources

For more information regarding this integration, foundation technology and the edge applications, refer to the following documents:

Product Documentation

Topic	Description
Integration documentation:	
SOA Based Service Catalog for Oracle Utilities ICS Adapter Installation Guide SOA Based Service Catalog for Oracle Utilities ICS Adapter Implementation Guide	Refer to the Oracle Utilities applications documentation page: http://docs.oracle.com/cd/E72219_01/documentation.html
Oracle Utilities ICS Adapter documentation	Refer to the Oracle Utilities ICS Adapter documentation page: https://docs.oracle.com/cloud/latest/intcs_gs/ICSUT/toc.htm
Additional Product documentation	Refer to the Oracle Utilities applications documentation page: http://docs.oracle.com/cd/E72219_01/documentation.html

Additional Documentation

Resource	Location
SOA Suite 12c documentation	Refer to the SOA documentation at: http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html
Oracle Support	Visit My Oracle Support at https://support.oracle.com regularly to stay informed about updates and patches. Access the support site for the Edge Application Certification Matrix for Oracle Utilities Products (Doc ID 1454143.1) or refer to the Oracle Utilities Integrations page at http://my.oracle.com/site/tugbu/productsindustry/productinfo/utilities/integration/index.htm
Oracle Technology Network (OTN) Latest versions of documents	http://www.oracle.com/technetwork/index.html
Oracle University for training opportunities	http://education.oracle.com/
Web Services Security	For more information about Web services security using Oracle Fusion Middleware 12c refer to https://docs.oracle.com/middleware/12211/cross/webservicestasks.htm.
Oracle Fusion Middleware 12c documentation	Refer to the Oracle applications documentation page: http://docs.oracle.com/en/middleware/
Oracle Fusion Middleware "What's New In Oracle WebLogic Server" Section: Standards Support, Supported Configurations and WebLogic Server Compatibility, Database Interoperability For additional information on the type of database to use.	http://docs.oracle.com/middleware/1221/wls/NOTES/whatsnew.htm#NOTES570
Instructions on installing this integration on non-Windows/ Linux platforms	Refer to Oracle Support Knowledge Article ID 1349320.1.

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.

Access to Oracle Support
Oracle customers have access to electronic support for the hearing impaired. Visit: http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	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.

Abbreviations

The following table lists the commonly used abbreviations in this guide.

Abbreviation	Definition
BPEL	Business Process Execution Language
CCB	Oracle Utilities Customer Care and Billing
DB	Database
DVM	Domain Value Map
ICS	Integration Cloud Service
MDS	Meta Data Store
OUAF	Oracle Utilities Application Framework
SOA	Service Oriented Architecture

Chapter 1

Introduction

This document provides configuration and administration information for SOA Based Service Catalog for Oracle Utilities ICS Adapter.

The overview includes the following:

- Prerequisites
- About SOA Based Service Catalog for Oracle Utilities ICS Adapter

Prerequisites

All participating applications must be installed, set up, and working properly.

About SOA Based Service Catalog for Oracle Utilities ICS Adapter

This section provides general information about the functionality and processing of the SOA Based Service Catalog for Oracle Utilities ICS Adapter.

Oracle Integration Cloud Service simplifies building integrations in the cloud, enabling to connect securely to applications and services, both in the cloud and on-premises.

The Oracle Utilities Adapter integrates Oracle Utilities Suite with your SaaS and on-premise applications to allow faster implementation, increased control, and lower costs.

Trigger (inbound) and Invoke (Outbound) support is provided for the Oracle Utilities ICS Adapter. The trigger capability enables Oracle Utilities Applications to trigger integration in Oracle Utilities ICS Adapter and the invoke capability allows invocation of an Oracle Utilities Application using web services from Oracle Integration Cloud Service.

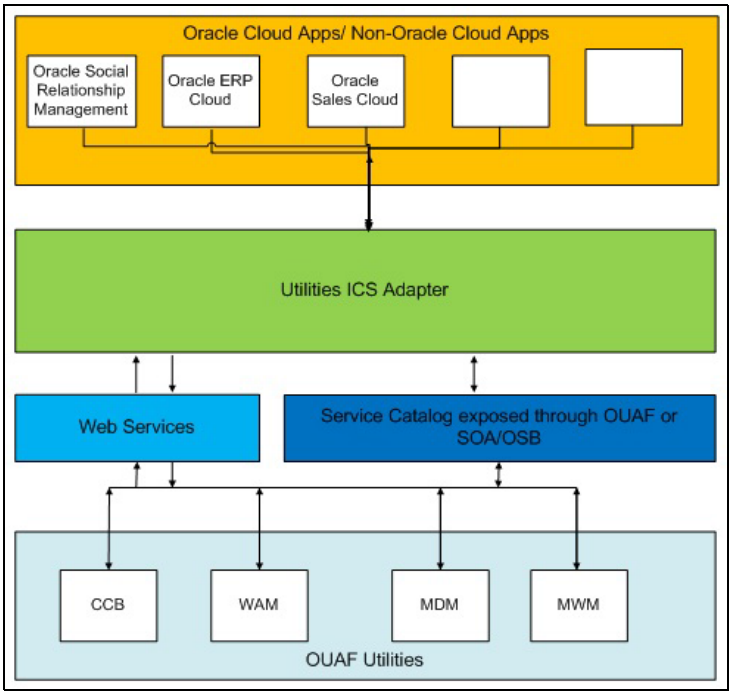
Both Inbound and Outbound Services are exposed using the Oracle Utilities Service Catalog. The Service Catalog provides a comprehensive list of services available for integration. Oracle Utilities ICS provides a simplified user experience in terms of creating data mappings at design time while constructing integrations with Utilities applications using the Oracle Utilities Adapter.

When creating a connection using the Oracle Utilities ICS Adapter, specify a web service that returns a list of all Inbound/Outbound Services that are currently exposed as part of the Catalog Service by one or more OUAF based applications.

The information retrieved by the adapter includes the name, the source system, description, the WSDL location and namespace. Every Inbound/Outbound service structure is exposed using a SOAP based WSDL.

Note: In order for the Oracle Utilities ICS Adapter to work with a Service Catalog, an interim solution of a SOA based BPEL catalog has been created to handle the aspect of returning the Catalog information required. In order for the catalog to work properly the username/ password used when creating an ICS connection should be synchronized between OUAF applications and the SOA Catalog Service.

Note: This document covers the basic details about the SOA based Catalog service. The documentation for the Service Catalog provided by Oracle Utilities Application Framework is part of the OUAF documentation.



ICS Integration Overview

Chapter 2

Understanding the Integration Process

This chapter provides the Service Catalog Enterprise Business Flow (EBF) processing details.

The Service Catalog EBF returns a list of catalog services from integration. The message format returned from integration is in the same format as what Oracle Utilities Application Framework returns; this way the catalog can be seamlessly switched between using SOA Service Catalog and OUAF Service Catalog.

- The Service Catalog EBF is a synchronous BPEL process receiving requests to return the list of services provided by the edge applications.
- The BPEL process invokes a Transformation/XSLT that looks up the Number_Of_Services.dvm to read the number of services currently in the Service Catalog.
- After the number of services is obtained, the next step in the transformation is to loop through each of the service and read the ServiceCatalog.dvm to obtain the following values in the DVM for each serviceNumber:
    - product
    - serviceMode
    - serviceName
    - synopsis
    - wsdlTargetNamespace
    - serverRole
    - category
    - description
    - wsdlLocation
- The transformed message is returned as response to the Service Catalog.
- Any errors encountered are handled in the integration layer.
- By default, oracle/oracle/Utilities_wss_http_token_service_policy_OPT_ON security policy is attached to the Service Catalog, so no credentials are needed to invoke the Catalog service.

  The credentials provided while creating a connection in ICS should be the same as the credentials to access OUAF based applications, as well as SOA Catalog. Ensure the username is setup correctly in both OUAF based applications and SOA Catalog.

Chapter 3

Configuring the Integration

The DVMs Number_Of_Services.dvm and ServiceCatalog.dvm control what is returned by the Service Catalog.

This section provides details about the configuration settings required for the integration, and also discusses the following in detail:

- Adding a Service to Service Catalog
- Sample Service Catalog Request/Response
- Creating New Utilities Adapter Connection in ICS
- Creating Integration Wizard for UGBU Connection

Adding a Service to Service Catalog

To add a new service to the Service Catalog follow these steps:

1. Navigate to Number_Of_Services.dvm and update it with the number of services to be read from the catalog.
2. Navigate to ServiceCatalog.dvm and update it with all the details needed for the service.
3. Run the following commands at the Command prompt to update MDS with the updated values of DVM.

   Linux

   ```
   cd $PRODUCT_HOME/bin
   ant -f InstallBuild.xml installSOA -
   DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l
   InstallICSCatalog.log
   ```

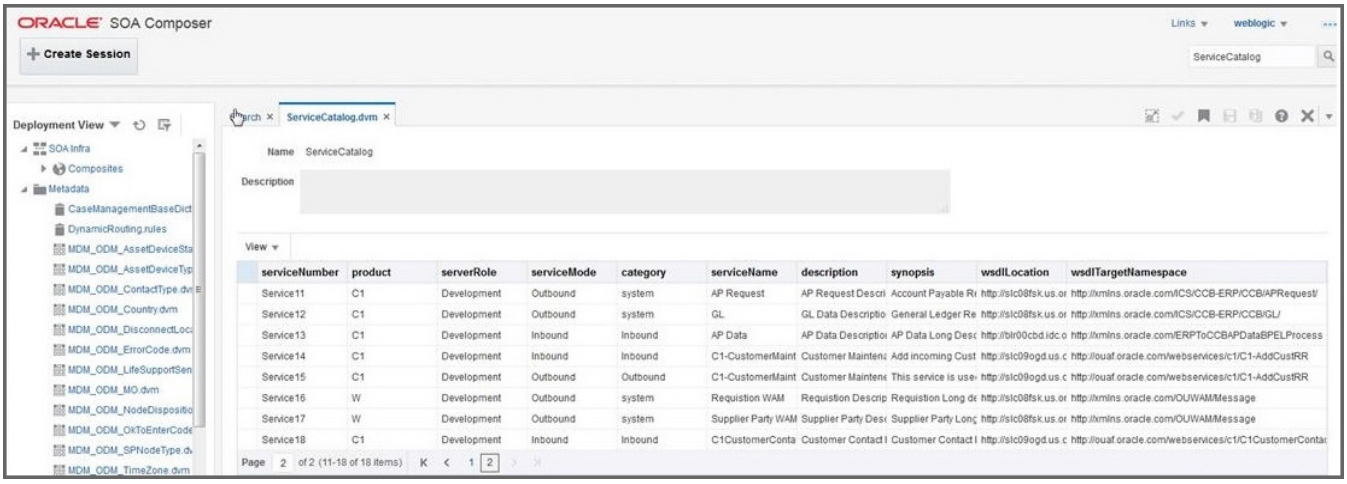
   Windows

   ```
   cd %PRODUCT_HOME%\bin
   ant -f InstallBuild.xml installSOA -
   DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l
   InstallICSCatalog.log
   ```

   Note: The DVMs can also be updated using the SOA Composer.

Update using SOA Composer will not update the local dvms stored on the file system; hence local DVM files are maintained in sync with that in MDS.

The figure below shows the DVM that can be modified from SOA Composer where the ICS Catalog is deployed.



4. After the new service is added to the Service Catalog, navigate to the existing ICS connection and refresh the metadata on the connection.
5. Now, you can create or go to an existing integration and see the new service appear while selecting the connection. The new service is ready for use.

Sample Service Catalog Request/Response

Below is a sample Service Catalog request/response.

Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/
envelope/" xmlns:ser="http://ouaf.oracle.com/webservices/builtin/
ServiceCatalog">
   <soapenv:Header/>
   <soapenv:Body>
      <ser:getCatalog/>
   </soapenv:Body>
</soapenv:Envelope>
```

Response

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/
" xmlns:wsa="http://www.w3.org/2005/08/addressing">
   <env:Header>
      <wsa:MessageID>urn:994b124d-90d0-11e6-8301-0021f609a6d3</
wsa:MessageID>
      <wsa:ReplyTo>
         <wsa:Address>http://www.w3.org/2005/08/addressing/
anonymous</wsa:Address>
         <wsa:ReferenceParameters>
            <instra:tracking.ecid xmlns:instra="http://
xmlns.oracle.com/sca/tracking/1.0">ee70a302-ccf4-41f5-a8ac-
a3437ab66c56-00032fee</instra:tracking.ecid>
            <instra:tracking.FlowEventId xmlns:instra="http://
xmlns.oracle.com/sca/tracking/1.0">45403992</
instra:tracking.FlowEventId>
```

```
            <instra:tracking.FlowId xmlns:instra="http://
xmlns.oracle.com/sca/tracking/1.0">4280015</
instra:tracking.FlowId>
            <instra:tracking.CorrelationFlowId xmlns:instra="http:/
/xmlns.oracle.com/sca/tracking/
1.0">0000LUv9Zo75QdT_I9L6if1Nyrxz00000H</
instra:tracking.CorrelationFlowId>
         </wsa:ReferenceParameters>
      </wsa:ReplyTo>
      <wsa:FaultTo>
         <wsa:Address>http://www.w3.org/2005/08/addressing/
anonymous</wsa:Address>
      </wsa:FaultTo>
   </env:Header>
   <env:Body>
      <getCatalogResponse xmlns:plnk="http://docs.oasis-open.org/
wsbpel/2.0/plnktype" xmlns:soap="http://schemas.xmlsoap.org/wsdl/
soap/" xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
xmlns:ns0="http://ouaf.oracle.com/webservices/builtin/
ServiceCatalog" xmlns="http://ouaf.oracle.com/webservices/builtin/
ServiceCatalog">
         <ns0:serviceCatalog>
            <service xmlns="">
               <product>C1</product>
               <serverRole>Development</serverRole>
               <serviceMode>Inbound</serviceMode>
               <category>system</category>
               <serviceName>Adjustment Maintenance</serviceName>
               <description>Adjustment Maintenance Description</
description>
               <synopsis>Adjustment Maintenance Long description
that can span few lines</synopsis>
               <wsdlLocation>http://CCB_HOST:CCB_PORT/spl/
webservices/xla/C1AdjustmentMaintenance?WSDL</wsdlLocation>
               <wsdlTargetNamespace>http://ouaf.oracle.com/
webservices/c1/C1AdjustmentMaintenance</wsdlTargetNamespace>
            </service>
            <service xmlns="">
               <product>C1</product>
               <serverRole>Development</serverRole>
               <serviceMode>Inbound</serviceMode>
               <category>system</category>
               <serviceName>View Account</serviceName>
               <description>View Account Description</description>
              <synopsis>View Account Long description that can span
few lines</synopsis>
               <wsdlLocation>http://CCB_HOST:CCB_PORT/spl/
webservices/WXViewAccount?WSDL</wsdlLocation>
               <wsdlTargetNamespace>http://ouaf.oracle.com/
webservices/c1/WXViewAccount</wsdlTargetNamespace>
            </service>
            <service xmlns="">
               <product>M2</product>
               <serverRole>Development</serverRole>
               <serviceMode>Inbound</serviceMode>
               <category>system</category>
               <serviceName>Make Payment</serviceName>
               <description>Make Payment Description</description>
              <synopsis>Make Payment Long description that can span
few lines</synopsis>
```

```
               <wsdlLocation>http://MWM_HOST:MWM_PORT/spl/
webservices/WXMakePayment?WSDL</wsdlLocation>
               <wsdlTargetNamespace>http://ouaf.oracle.com/
webservices/c1/WXMakePayment</wsdlTargetNamespace>
            </service>
            <service xmlns="">
               <product>D2</product>
               <serverRole>Development</serverRole>
               <serviceMode>Inbound</serviceMode>
               <category>system</category>
               <serviceName>IMD Initial Load</serviceName>
               <description>IMD Initial Load Description</
description>
              <synopsis>IMD Initial Load Long description that can
span few lines</synopsis>
               <wsdlLocation>http://MDM_HOST:MDM_PORT/ouaf/
webservices/D1-InitialLoadIMD?WSDL</wsdlLocation>
               <wsdlTargetNamespace>http://ouaf.oracle.com/
webservices/d1/D1-InitialLoadIMD</wsdlTargetNamespace>
            </service>
            <service xmlns="">
               <product>C1</product>
               <serverRole>Development</serverRole>
               <serviceMode>Outbound</serviceMode>
               <category>system</category>
               <serviceName>Requistion</serviceName>
               <description>Requistion Description</description>
               <synopsis>Requistion Long description that can span
few lines.Lorem Ipsum is simply dummy text of the printing and
typesetting industry. Lorem Ipsum has been the industry's standard
dummy text ever since the 1500s, when an unknown printer took a
galley of type and scrambled it to make a type specimen book.orem
Ipsum is simply dummy text of the printing and typesetting
industry. Lorem Ipsum has been the industry's standard dummy text
ever since the 1500s, when an unknown printer took a galley of type
and scrambled it to make a type specimen book. It has survived not
only five centuries, but also the leap into electronic typesetting,
remaining essentially unchanged. It was popularised in the 1960s
with the release of Letraset sheets containing Lorem Ipsum
passages, and more recently with desktop publishing software like
Aldus PageMaker including versions of Lorem Ipsum.</synopsis>
               <wsdlLocation>http://SOA_HOST:SOA_PORT/soa-infra/
services/OUWAMERP/SyncRequisitionOUWAMUtilitiesReqABCSImpl/
WAMSyncRequisitionRequestService_ep?WSDL</wsdlLocation>
               <wsdlTargetNamespace>http://xmlns.oracle.com/OUWAM/
Message</wsdlTargetNamespace>
            </service>
            <service xmlns="">
               <product>C1</product>
               <serverRole>Development</serverRole>
               <serviceMode>Outbound</serviceMode>
               <category>system</category>
               <serviceName>Supplier Party</serviceName>
              <description>Supplier Party Description</description>
               <synopsis>Supplier Party Long description that can
span few lines</synopsis>
               <wsdlLocation>http://SOA_HOST:SOA_PORT/soa-infra/
services/OUWAMERP/SyncSupplierPartyOUWAMUtilitiesReqABCSImpl/
WAMSyncSupplierPartyRequestService_ep?WSDL</wsdlLocation>
               <wsdlTargetNamespace>http://xmlns.oracle.com/OUWAM/
Message</wsdlTargetNamespace>
            </service>
```

```
            <service xmlns="">
               <product>M2</product>
               <serverRole>Development</serverRole>
               <serviceMode>Outbound</serviceMode>
               <category>system</category>
               <serviceName>SP Query</serviceName>
               <description>SP Query Description</description>
              <synopsis>SP Query Long description that can span few
lines</synopsis>
               <wsdlLocation>http://SOA_HOST:SOA_PORT/soa-infra/
services/OUWAMERP/HelloWorld/
helloworldbpel_client_ep?WSDL=MWMWSPQuery.wsdl</wsdlLocation>
               <wsdlTargetNamespace>http://xmlns.oracle.com/OUWAM/
Message</wsdlTargetNamespace>
            </service>
            <service xmlns="">
               <product>C1</product>
               <serverRole>Development</serverRole>
               <serviceMode>Inbound</serviceMode>
               <category>Inbound</category>
               <serviceName>SP Query</serviceName>
               <description>SP Query</description>
               <synopsis>SP Query</synopsis>
               <wsdlLocation>http://CCB_HOST:CCB_PORT/ /spl/
webservices/C1ServicePointQuery?wsdl</wsdlLocation>
               <wsdlTargetNamespace>http://ouaf.oracle.com/
webservices/c1/C1ServicePointQuery</wsdlTargetNamespace>
            </service>
            <service xmlns="">
               <product>C1</product>
               <serverRole>Development</serverRole>
               <serviceMode>Outbound</serviceMode>
               <category>system</category>
               <serviceName>FA Info</serviceName>
               <description>FA Info Description</description>
              <synopsis>FA Info Long description that can span few
lines</synopsis>
               <wsdlLocation>http://CCB_HOST:CCB_PORT/spl/
webservices/xla/ExtractFAInfo?wsdl</wsdlLocation>
               <wsdlTargetNamespace>http://ouaf.oracle.com/
webservices/c1/ExtractFAInfo</wsdlTargetNamespace>
            </service>
            <service xmlns="">
               <product>C1</product>
               <serverRole>Development</serverRole>
               <serviceMode>Outbound</serviceMode>
               <category>system</category>
               <serviceName>FA Info</serviceName>
               <description>FA Info Description</description>
              <synopsis>FA Info Long description that can span few
lines</synopsis>
               <wsdlLocation>http://CCB_HOST:CCB_PORT/spl/
webservices/xla/ExtractFAInfo?wsdl</wsdlLocation>
               <wsdlTargetNamespace>http://ouaf.oracle.com/
webservices/c1/ExtractFAInfo</wsdlTargetNamespace>
            </service>
            <service xmlns="">
               <product>C1</product>
               <serverRole>Development</serverRole>
               <serviceMode>Outbound</serviceMode>
               <category>system</category>
               <serviceName>AP Request</serviceName>
```

```
                <description>AP Request Description</description>
                <synopsis>Account Payable Request Long description
that can span few lines</synopsis>
                <wsdlLocation>http://SOA_HOST:SOA_PORT/soa-infra/
services/OUWAMERP/HelloWorld/
helloworldbpel_client_ep?WSDL=APRequest.wsdl</wsdlLocation>
              <wsdlTargetNamespace>http://xmlns.oracle.com/ICS/CCB-
ERP/CCB/APRequest/</wsdlTargetNamespace>
            </service>
            <service xmlns="">
               <product>C1</product>
               <serverRole>Development</serverRole>
               <serviceMode>Outbound</serviceMode>
               <category>system</category>
               <serviceName>GL</serviceName>
               <description>GL Data Description</description>
               <synopsis>General Ledger Request Long Description</
synopsis>
               <wsdlLocation>http://SOA_HOST:SOA_PORT/soa-infra/
services/OUWAMERP/HelloWorld/
helloworldbpel_client_ep?WSDL=GL.wsdl</wsdlLocation>
              <wsdlTargetNamespace>http://xmlns.oracle.com/ICS/CCB-
ERP/CCB/GL/</wsdlTargetNamespace>
            </service>
            <service xmlns="">
               <product>C1</product>
               <serverRole>Development</serverRole>
               <serviceMode>Inbound</serviceMode>
               <category>Inbound</category>
               <serviceName>AP Data</serviceName>
               <description>AP Data Description</description>
               <synopsis>AP Data Long Description</synopsis>
               <wsdlLocation>http://SOA_HOST:SOA_PORT/soa-infra/
services/CCB-ERP/ERPToCCBAPDataBPELProcess/client?WSDL</
wsdlLocation>
               <wsdlTargetNamespace>http://xmlns.oracle.com/
ERPToCCBAPDataBPELProcess</wsdlTargetNamespace>
            </service>
            <service xmlns="">
               <product>C1</product>
               <serverRole>Development</serverRole>
               <serviceMode>Inbound</serviceMode>
               <category>Inbound</category>
               <serviceName>C1-CustomerMaintenanceRequest</
serviceName>
               <description>Customer Maintenance Request</
description>
             <synopsis>Add incoming Customer Relationship Request.
It invokes the Customer Relationship Creation processing script
that is defined in Customer Relationship Integration master
configuration.  The base product provides sample script Create
Customer Relationship Request (C1-CreCustRR) that can be plugged in
on master configuration.  This sample script contains logic that
maps the request data sent in from the external system into the
Customer Relationship Request record.</synopsis>
               <wsdlLocation>http://CCB_HOST:CCB_PORT/spl/
webservices/C1-AddCustRR?WSDL</wsdlLocation>
               <wsdlTargetNamespace>http://ouaf.oracle.com/
webservices/c1/C1-AddCustRR</wsdlTargetNamespace>
            </service>
            <service xmlns="">
               <product>C1</product>
```

```
                <serverRole>Development</serverRole>
                <serviceMode>Outbound</serviceMode>
                <category>Outbound</category>
                <serviceName>C1-CustomerMaintenenceRequest</
serviceName>
                <description>Customer Maintenence Request</
description>
                <synopsis>This service is used in the SRM
integration. It creates a customer maintenance request in CCB.</
synopsis>
                <wsdlLocation>http://CCB_HOST:CCB_PORT/spl/
webservices/C1-AddCustRR?WSDL</wsdlLocation>
                <wsdlTargetNamespace>http://ouaf.oracle.com/
webservices/c1/C1-AddCustRR</wsdlTargetNamespace>
             </service>
             <service xmlns="">
                <product>W</product>
                <serverRole>Development</serverRole>
                <serviceMode>Outbound</serviceMode>
                <category>system</category>
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                <description>Requistion Description</description>
                <synopsis>Requistion Long description that can span
few lines</synopsis>
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WAMSyncRequisitionRequestService_ep?WSDL</wsdlLocation>
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Message</wsdlTargetNamespace>
             </service>
             <service xmlns="">
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                <serverRole>Development</serverRole>
                <serviceMode>Outbound</serviceMode>
                <category>system</category>
                <serviceName>Supplier Party WAM</serviceName>
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                <synopsis>Supplier Party Long description that can
span few lines</synopsis>
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WAMSyncSupplierPartyRequestService_ep?WSDL</wsdlLocation>
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Message</wsdlTargetNamespace>
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                <category>Inbound</category>
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serviceName>
                <description>Customer Contact Maintenance</
description>
                <synopsis>Customer Contact Maintenance</synopsis>
                <wsdlLocation>http://CCB_HOST:CCB_PORT/spl/
webservices/xla/C1CustomerContactMaintenance?WSDL</wsdlLocation>
                <wsdlTargetNamespace>http://ouaf.oracle.com/
webservices/c1/C1CustomerContactMaintenance</wsdlTargetNamespace>
             </service>
             <service xmlns="">
                <product>C1</product>
```
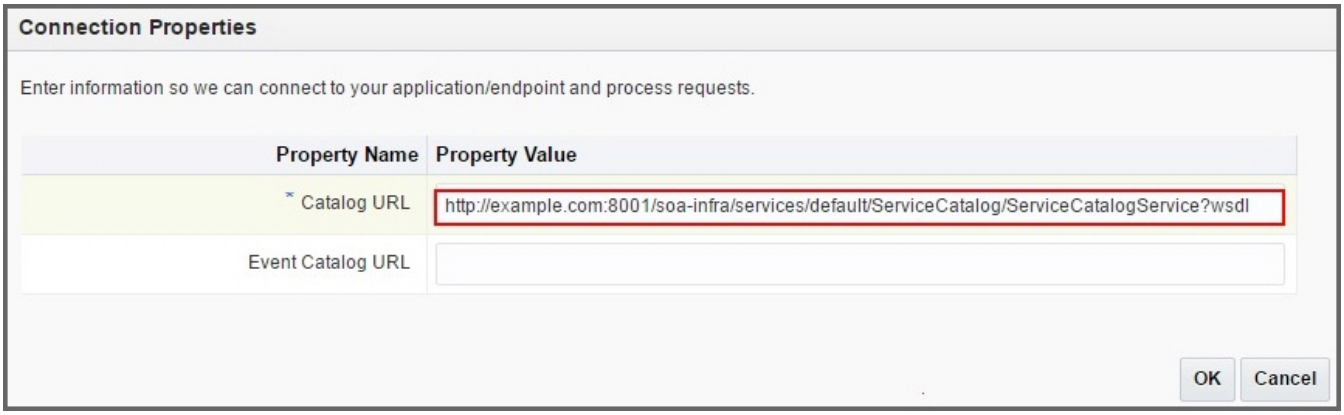

```
                <serverRole>Development</serverRole>
                <serviceMode>Inbound</serviceMode>
                <category>Inbound</category>
                <serviceName>Test Fault</serviceName>
                <description>Test Fault</description>
                <synopsis>Test Fault</synopsis>
                <wsdlLocation>http://SOA_HOST:SOA_PORT/soa-infra/
services/default/TestICSThrowFault/bpelprocess1_client_ep?WSDL</
wsdlLocation>
                <wsdlTargetNamespace>http://xmlns.oracle.com/
Application1/TestICSThrowFault/BPELProcess1</wsdlTargetNamespace>
            </service>
         </ns0:serviceCatalog>
      </getCatalogResponse>
   </env:Body>
</env:Envelope>
```

Creating New Utilities Adapter Connection in ICS

To create a new Utilities Adapter connection in ICS, follow these steps:

1. Configure the Service Catalog in the Connection Properties of ICS.



2. Specify the credentials to access the inbound/outbound services.

   Note: HTTP Basic Authentication is the only security policy supported at the time of this release.

   Note: While specifying the username/password, ensure that the same credentials are valid to invoke both the SOA Catalog Service and the

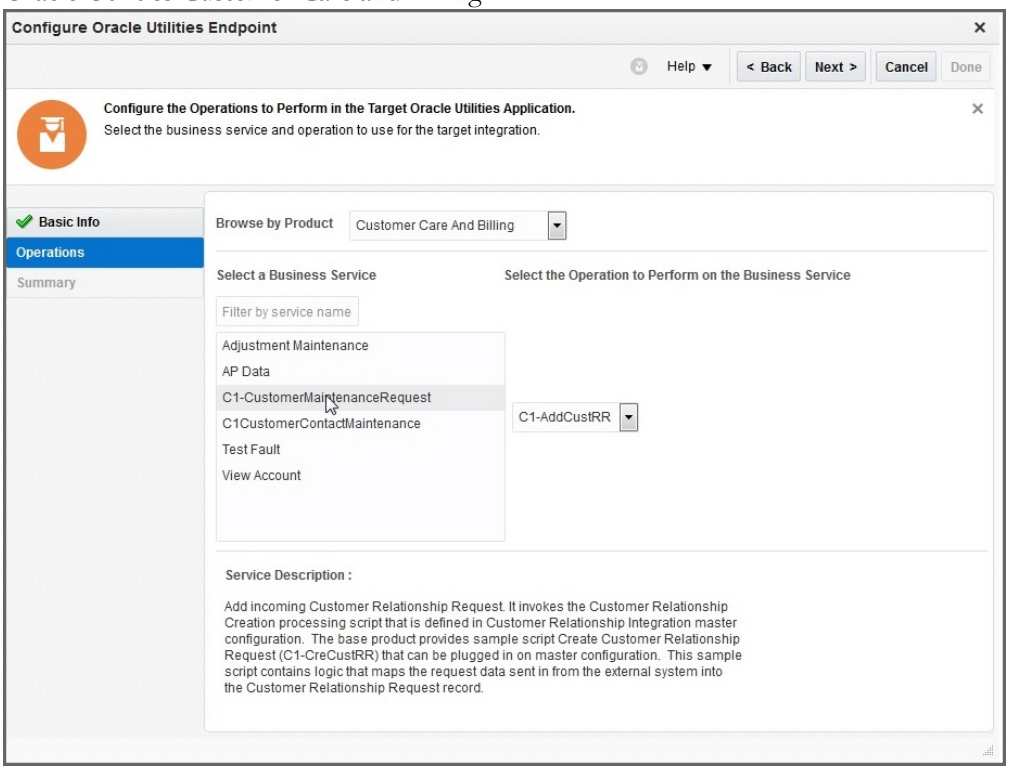
OUAF endpoints. The username/password specified here should exist on both the SOA server, as well as the OUAF server.

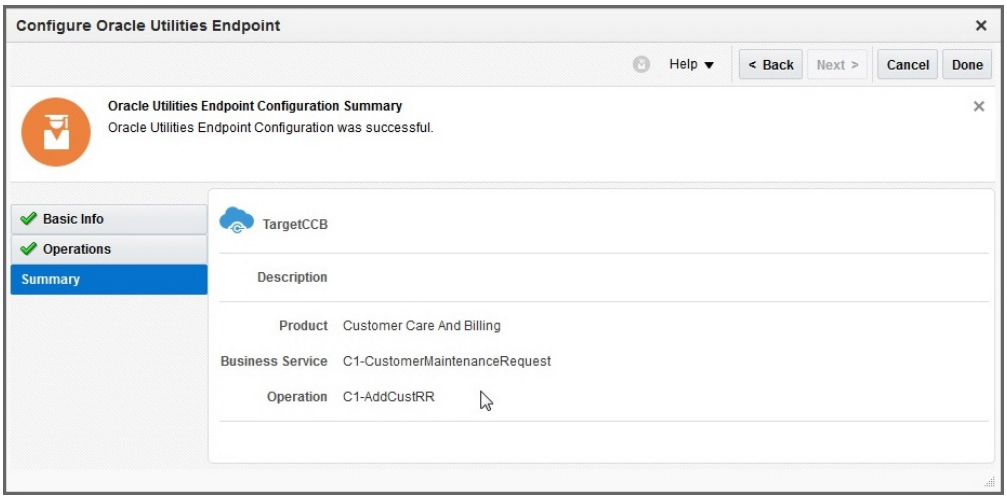
Creating Integration Wizard for UGBU Connection

The Integration Wizard for the new connection (see Creating New Utilities Adapter Connection in ICS section for steps) can be created in the following ways:

Configuring Outbound from ICS and Inbound into Oracle Utilities Customer Care and Billing

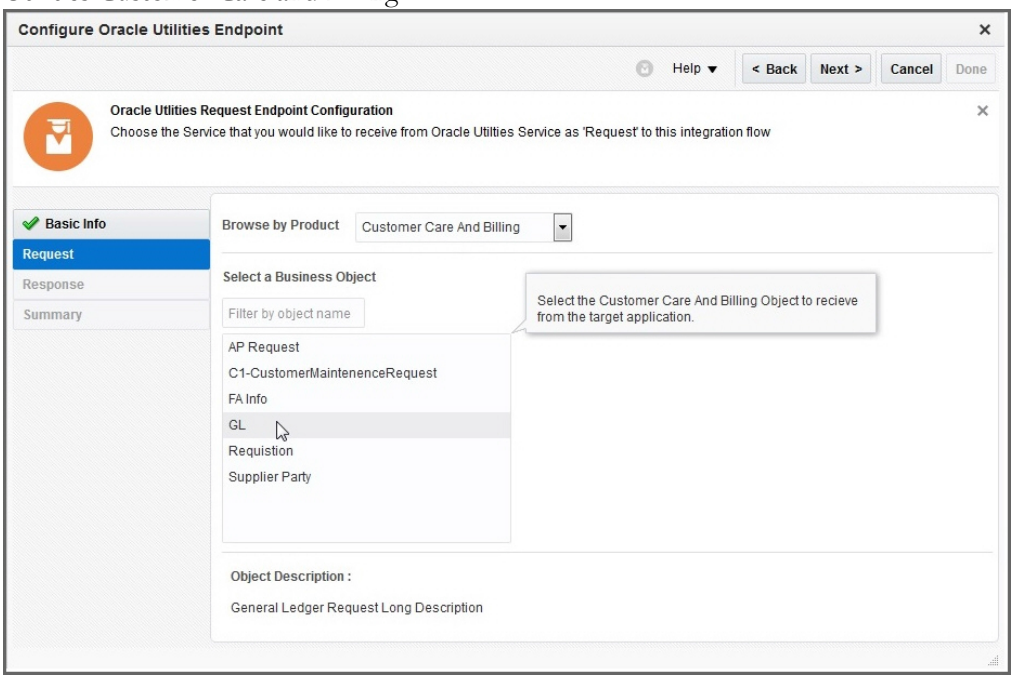
The screens below show the configuration of outbound from ICS and inbound into Oracle Utilities Customer Care and Billing.

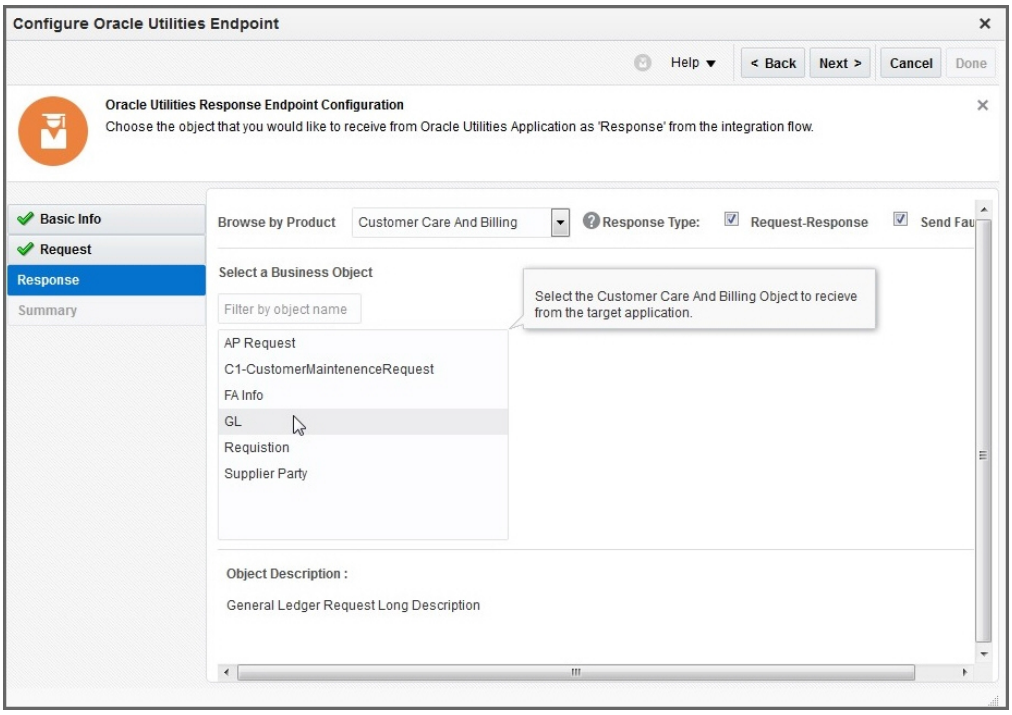


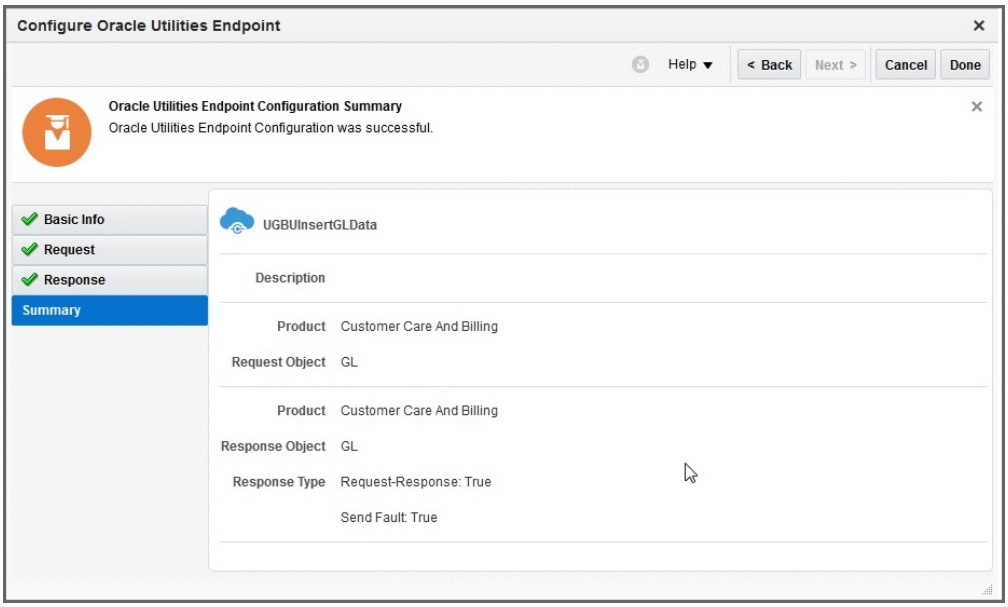


Configuring Inbound into ICS and Outbound from Oracle Utilities Customer Care and Billing

The screens below show configuring inbound into ICS and outbound from Oracle Utilities Customer Care and Billing.




Configure Oracle Utilities Endpoint
Help
< Back
Next >
Cancel
Done
Oracle Utilities Response Endpoint Configuration
Choose the object that you would like to receive from Oracle Utilities Application as 'Response' from the integration flow.
Basic Info
Request
Response
Summary
Browse by Product
Customer Care And Billing
Response Type:
Request-Response
Send Fau
Select a Business Object
Filter by object name
Select the Customer Care And Billing Object to recieve from the target application.
AP Request
C1-CustomerMaintenenceRequest
FA Info
GL
Requistion
Supplier Party
Object Description :
General Ledger Request Long Description


Configure Oracle Utilities Endpoint
Help
< Back
Next >
Cancel
Done
Oracle Utilities Endpoint Configuration Summary
Oracle Utilities Endpoint Configuration was successful.
Basic Info
Request
Response
Summary
UGBUInsertGLData
Description
Product
Customer Care And Billing
Request Object
GL
Product
Customer Care And Billing
Response Object
GL
Response Type
Request-Response: True
Send Fault: True