

# Implement CPQ-EBS CDM Reference Integration

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## Disclaimer

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## Contents

Purpose .....	1
Prerequisite .....	1
Introduction .....	1
Implementation Overview .....	1
EBS Web Services.....	1
Commerce Process .....	3
Additional Changes.....	3
Implementation Details.....	3
Attributes .....	3
Data Tables.....	6
Library Functions .....	7
Actions .....	14
Validation .....	15
Step Transitions .....	16
Appendix A: Customer Sync Details Template .....	17
Appendix B: Get Organization Details Template.....	19
Appendix C: Get Customer Account Payload Template .....	20
Appendix D: BML for Get Customer Action.....	21
Appendix E: BML for Get Address Action .....	27
Appendix F: BML for Get Customer Account ID .....	36
Appendix G: Sample Payload for Get Customer.....	37
Appendix H: Sample Response for Get Customer.....	39
Appendix I: Sample Payload for Get Address.....	44
Appendix J: Sample Response for Get Address.....	45
Appendix K: Sample Payload for Org Customer.....	49
Appendix L: Sample Response for Org Customer .....	50

## Purpose

This white paper describes how to implement the Reference Integration between Oracle Configure, Price and Quote (CPQ) Cloud and Oracle E- Business Suite Customer (EBS CDM).

## Prerequisite

The CPQ – EBS Reference Integration is implemented on CPQ 2015 R1 Release and E- Business Suite Release 9 or later. CPQ base Reference Application must be deployed in the environment. Relevant EBS web services must be up and running.

## Introduction

CPQ – EBS CDM Reference Integration enables CPQ to retrieve details of a customer company from EBS. It supports the following two scenarios:

- » **Valid customer company name** – when a sales representative enters a valid customer company name, list of similar customer company names and party ID is retrieved and displayed in the UI after 'Get Customer' action is invoked. The user can select one of the Customer from the list and proceed with other functionality such as 'Get Address','GetCustomerAccountID' action.
- » **Invalid customer company name** – when the sales representative enters an invalid customer company name, Select Your Party Name attribute is populated with error messages to state that no customer for this customer company name is found.

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**IMPORTANT:** The integration is implemented using the following three actions: "Get Customer", "Get Address", and "GetCustomerAccountID".

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## Implementation Overview

### EBS Web Services

The following EBS web services are invoked:

- » Web service "DQM Search Service" operation "findParties"
- » Web service "Organization Business Object Services" operation "getOrganization"
- » Web service "Organization Customer Business Object Services" operation "getOrgCustomer"



## EBS Customer Web Service Generation

1. Login to the EBS environment.
2. Navigate to the web service as follows:
  - a) **DQM Search Service**: Integrated SOA gateway > Integration Repository > View By > Interface Type > Business Service Object > Financials > Receivables > DQM Search Services
  - b) **Organization Business Object Service**: Integrated SOA gateway > Integration Repository > View By > Interface Type > Business Service Object > Financials > Receivables > Organization Business Object Services
  - c) **Organization Customer Business Object Service**: Integrated SOA gateway > Integration Repository > View By > Interface Type > Business Service Object > Financials > Receivables > Organization Customer Business Object Services
3. Check the operation under procedures and functions to generate the corresponding web service.
  - a) For “DQM Search Service”, check “findParties”.
  - b) For “Organization Business Object Services”, check “getOrganization”.
  - c) For “Organization Customer Business Object Services”, check “getOrgCustomer”.
4. Click **Generate**. A WSDL link for the SOAP web service is generated.
5. Select **Username Token** as the **Authentication Type**.
6. Click **Deploy**.
7. Click View WSDL and copy the value of the “soap:address location” element, which is the endpoint.
8. Select the **Grants** tab.
9. Select the object for which the grant is created.
10. Keep the **Grantee Type** as **All Users**.
11. Click **Create Grant**.

## Commerce Process

The Reference Integration makes changes to the “Oracle Quote to Order” commerce process from the base reference application in the following areas: Attributes, Library Functions, Actions, Validation, and Step Transition.

## Additional Changes

Additional changes outside the commerce process include data table changes and File Manager changes.

## Implementation Details

### Attributes

Create/Add the following attributes to the “Oracle Quote to Order” commerce process.

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**IMPORTANT:** Beginning in Release 2017 R1 Update 3, an HTML attribute cannot be used to update a read-only attribute.

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### ATTRIBUTES LIST

Document	Attribute Name	Attribute Variable Name	Type	Description
Transaction > Customer Attributes	Customer Company Name	_customer_t_company_name	Text	Customer Company Name
Transaction > Customer Attributes	Customer Address	_customer_t_address	Text	Customer Address
Transaction > Customer Attributes	Customer Address 2	_customer_t_address_2	Text	Customer Address 2
Transaction > Customer Attributes	Customer City	_customer_t_city	Text	Customer City
Transaction > Customer Attributes	Customer State	_customer_t_state	State	Customer State
Transaction > Customer Attributes	Customer Zip	_customer_t_zip	Zip	Customer Zip
Transaction > Customer Attributes	Customer Country	_customer_t_country	Country	Customer Country
Transaction > Customer Attributes	Customer Phone	_customer_t_phone	Phone	Customer Phone
Transaction > Customer Attributes	Customer Fax	_customer_t_fax	Phone	Customer Fax
Transaction > Customer Attributes	Customer Email	_customer_t_email	Text	Customer Email
Transaction > Invoice To Attributes	Invoice To Company Name	_invoiceTo_t_company_name	Text	Invoice To Company Name
Transaction > Invoice To Attributes	Invoice To Address	_invoiceTo_t_address	Text	Invoice To Address
Transaction > Invoice To Attributes	Invoice To Address 2	_invoiceTo_t_address_2	Text	Invoice To Address 2
Transaction > Invoice To Attributes	Invoice To City	_invoiceTo_t_city	Text	Invoice To City
Transaction > Invoice To Attributes	Invoice To State	_invoiceTo_t_state	State	Invoice To State
Transaction > Invoice To Attributes	Invoice To Zip	_invoiceTo_t_zip	Zip	Invoice To Zip
Transaction > Invoice To Attributes	Invoice To Country	_invoiceTo_t_country	Country	Invoice To Country
Transaction > Invoice To Attributes	Invoice To Phone	_invoiceTo_t_phone	Phone	Invoice To Phone
Transaction > Invoice To Attributes	Invoice To Fax	_invoiceTo_t_fax	Phone	Invoice To Fax
Transaction > Invoice To Attributes	Invoice To Email	_invoiceTo_t_email	Text	Invoice To Email
Transaction	Select Your Party Name	customerDetailsMsg	Html	EBS integration will provide value to this field based on Customer company name
Transaction	Select Your Address	addressDetailsMessage	Html	EBS integration will provide value to this field based on Customer ID

Transaction	Party ID	partyID	Text	EBS integration will provide value to this field based on Customer company name
Transaction	Party Site ID	partySiteID	Text	EBS integration will provide value to this field based on Customer ID
Transaction	Customer ID	customerID	Text	Customer ID for the customer

Provide the default value for 'Select Your Party Name' and 'Select Your Address' attributes in the default tab.

1. Default value for 'Select Your Party Name' attribute:

```
<table style="border: 1px solid; width: 340px; height: 20px;"><tbody><tr><td><span style="color: #ff0000;">$customerDetailsMsg$</span></td></tr></tbody></table>
```

Default Value for Select Your Party Name

2. Default value for 'Select Your Address' attribute:

```
<table style="border: 1px solid; height: 20px; width: 342px;" ><tbody><tr><td><span style="color: #ff0000;">$addressDetailsMessage$</span></td></tr></tbody></table>
```

Default Value for Select Your Address



## File Manager

Template file formats are identified in the below table.

System	Operation	Template
EBS-Customer	GetCustomerInfoDQM	Refer to <a href="#">Appendix A: Customer Sync Details Template</a>
EBS-Address	GetCustomerInfoAddress	Refer to <a href="#">Appendix B: Get Organization Details Template</a>
EBS-CustomerAccount	custAcntID	Refer to <a href="#">Appendix C: Get Customer Account Payload Template</a>

## Data Tables

### INT\_SYSTEM\_DETAILS

System	UserName	Web Service	SOAP Endpoint
EBS-Customer	<Enter the username here to call the webservice endpoint>	SOAP	<Enter the webservice endpoint to call the service related to EBS GetCustomer>
EBS-Address	<Enter the username here to call the webservice endpoint>	SOAP	<Enter the webservice endpoint to call the service related to EBS Org>
EBS-CustomerAccount	<Enter the username here to call the webservice endpoint>	SOAP	<Enter the webservice endpoint to call the service related to EBS OrgCust>

### INT\_SYSTEM\_TEMPLATES

System	Operation	Template
EBS-Customer	GetCustomerInfoDQM	<Enter the template URL path that is uploaded in File manager>
EBS-Address	GetCustomerInfoAddress	<Enter the template URL path that is uploaded in File manager>
EBS-CustomerAccount	custAcntID	<Enter the template URL path that is uploaded in File manager>

## Library Functions

Four commerce process library functions are used.

### » String getTemplateLocation(String system, String operation)

```
//1. Get Template File
templateUrl = "";
//bmql query
resultSet = bmql("Select Template from INT_SYSTEM_TEMPLATES where System = $system and
Operation = $operation");

//loop through the records
for record in resultSet {
    templateUrl = get(record,"Template");
    print templateUrl;
}

temp=split(templateUrl,"image");

return temp[1];
```

Return Type, Input information, and attributes used for the library function are shown in the below screenshot.



## » String Dictionary getPassword(String sysName)

```
pswd = "";

if ( sysName == "EBS" ) {
    pswd = "welcome";
}

if ( sysName == "MATERIAL RESERVATION" ) {
    pswd = "sysadmin";
}

if ( sysName == "QUERY_ON_HAND" ) {
    pswd = "sysadmin";
}

if ( sysName == "CLEAR_CACHE" ) {
    pswd = "sysadmin";
}

if ( sysName == "EBS-Customer" ) {
    pswd = "sysadmin";
}

if ( sysName == "EBS-Address" ) {
    pswd = "sysadmin";
}

if ( sysName == "EBS-CustomerAccount" ) {
    pswd = "welcome";
}

return pswd;
```

Return Type, Input information, and attributes used for the library function are shown in the below screenshot.

The screenshot displays the 'Commerce BML Library Function Editor: Properties & Parameters' window. It is divided into two main sections: 'Properties & Parameters' and 'Function Editor'.

**Properties & Parameters Section:**

- Name:** getPassword
- Variable Name:** getPassword
- Description:** (Empty text area)
- Return Type:** String
- Parameter Table:**

#	Parameter Name	Parameter Type
1	sysName	String

**Function Editor Section:**

- Buttons: Attributes, Function Wizard, Debugger, Library Function(s)
- Editor Help
- Attribute Panels:
  - Main Document Attribute:** # Attribute
  - Sub Document Attribute:** transactionLine, # Attribute
  - System Attribute:** # Attribute

## >> String getCustAcntID(String system)

```
//Get Template File
templateUrl = "";
userName = "";
password = "";
templateFileLocation = commerce.getTemplateLocation(system,"custAcntID");
payload = dict("string");

//Get User Info from data table and replace it in Template file
resultSet = bmql("Select UserName from INT_SYSTEM_DETAILS where System = $system");

//loop through the records and get password for the webservice
for record in resultSet {
    userName = get(record,"UserName");
    password = commerce.getPassword(system);
    put(payload,"userName", userName);
    put(payload,"password", password);
}
print partyID;
put(payload,"partyID", partyID);
defaultErrorMessage="";
outFile=applytemplate(templateFileLocation,payload,defaultErrorMessage);
print templateFileLocation;
soapRequest = commerce.getDataSecurity("EBS-CustomerAccount", "getID", outFile);
return soapRequest;
```

Return Type, Input information, and attributes used for the library function are shown in the below screenshot.

The screenshot displays the 'Commerce BML Library Function Editor: Properties & Parameters' window. It is divided into several sections:

- Properties & Parameters:** This section contains input fields for 'Name' (getCustAcntID), 'Variable Name' (getCustAcntID), 'Description' (get Customer Account ID based on the party ID.), and 'Return Type' (String). To the right is a table of parameters:

#	Parameter Name	Parameter Type
1	system	String

**Function Editor:** This section includes a toolbar with 'Attributes', 'Function Wizard', 'Debugger', and 'Library Function(s)' buttons. It also has 'Hide Tools' and 'Editor Help' options.

**Attributes:** Below the toolbar are three panels for defining attributes:

- Main Document Attribute:** Contains a table with one entry: # 1, partyID.
- Sub Document Attribute:** Contains a table with one entry: transactionLine.
- System Attribute:** Contains a table with one entry: # Attribute.

Each attribute panel has an 'Add Attributes' button at the bottom.

## >> String invokeWebService(String system, String soapReq)

```
// Get WebServiceInfo Info from data table and replace it in Template file
//bmql query
resultSet = bmql("Select WebService from INT_SYSTEM_DETAILS where System = $system");
webService = "";
endPoint = "";
//loop through the records
for record in resultSet {
    webService = get(record,"WebService");
}
if (webService == "SOAP") {
//Get SOAP endpoint for the system
resultSet = bmql("Select SoapEndPoint from INT_SYSTEM_DETAILS where System = $system");
endpoint = "";
//loop through the records
for record in resultSet {
    endpoint = get(record,"SoapEndPoint");
    print endpoint;
}
} else {
//Get REST endpoint for the system
resultSet = bmql("Select RestEndPoint from INT_SYSTEM_DETAILS where System = $system");
endpoint = "";
//loop through the records
for record in resultSet {
    endpoint = get(record,"RestEndPoint");
    print endpoint;
}
}

//2. Invoke the web service
headerValues = dict("string");
put(headerValues, "Content-Type", "text/xml; charset=utf-8");
```

```

errorString = "Error in "+system+" invocation";

soapResponse= urldatabypost(endPoint , soapReq ,errorString,headerValues,true); // sends
the soap call and returns response to variable.

print "going to print soapResponse";

print soapResponse;

//3. Return the response
return soapResponse;

```

Return Type, Input information, and the attributes used for the library function are shown in the below screenshot.

**Commerce BML Library Function Editor: Properties & Parameters**

Name:  # Parameter Name Parameter Type

Variable Name:

#	Parameter Name	Parameter Type
1	system	String
2	soapReq	String

Description:

Return Type:

---

**Function Editor**

Hide Tools | Editor Help

Attributes Function Wizard Debugger Library Function(s)

---

**Main Document Attribute** **Sub Document Attribute** **System Attribute**

#	Attribute
	transactionLine
#	Attribute
	Attribute



## Actions

### Transaction Action

The integration is implemented using three actions as follows:

#### **Get Customer**

To retrieve and display the customer company names and Customer ID in a dropdown list, implement the “Get Customer” action as follows:

System Variable Name	Type	Description
N/A		
Variable Name for (Transaction)	Type	Description
_transaction_customer_t_company_name	String	Customer Company Name
Imported Commerce Functions		
String getPassword(String system)		
String getTemplateLocation(String system, String operation)		

---

**IMPORTANT:** Refer to [Appendix D: BML for Get Customer Action](#). Define the action for Advanced Modify – After Formula.

---

#### **Get Address**

To retrieve and display the customer addresses in a dropdown list for the given company id, “Get Address” action is implemented as follows:

System Variable Name	Type	Description
N/A		
Variable Name for (Transaction)	Type	Description
partyID	String	Party ID
_transaction_customer_t_company_name	String	Customer Company Name
Imported Commerce Functions		
String getPassword(String system)		
String getTemplateLocation(String system, String operation)		

---

**IMPORTANT:** Refer to [Appendix E: BML for Get Address Action](#). The action should be defined for Advanced Modify – after formula section.

---

## GetCustomerAccountID

To retrieve and display the customer Id for the given Party id, "GetCustomerAccountID" action is implemented as follows:

System Variable Name	Type	Description
N/A		
Variable Name for (Transaction)	Type	Description
Imported Commerce Functions		
String getCustAcntID(String system)		
String invokeWebService(String system, String soapReq)		

**IMPORTANT:** Refer to [Appendix F: BML for Get Customer Account ID Action](#). The action should be defined for Advanced Modify – after formula section.

## Validation

Validation for Customer Company Name is done so that until a value is entered in the field, customer cannot navigate further.

**Validation: Empty Customer Company Name** Oracle Quote to Order >> Transact

**Name:**  **Description:**

**Variable Name:**

**Status:**  Active  Inactive

**Available Actions:**  ▼

**Condition**

**Condition Type:**  AlwaysTrue  Simple  Advanced

**Action (Values to Constrain/Allow)**

Attribute	Operator	Value	Message	Message Location
<input checked="" type="checkbox"/> Customer Company Name	Equals		Customer Company Name doesn't exist . Please enter a...	Attribute

Validation for Customer Id is done so that until a value is entered in the field, customer cannot navigate further.

**Validation: Customer Id Validation** Oracle Quote to Order >> Transact

**Name:**  **Description:**

**Variable Name:**

**Status:**  Active  Inactive

**Available Actions:**  ▼

**Condition**

**Condition Type:**  AlwaysTrue  Simple  Advanced

**Action (Values to Constrain/Allow)**

Attribute	Operator	Value	Message	Message Location
<input checked="" type="checkbox"/> Customer ID	Equals		Customer ID can not be empty	Attribute

## Step Transitions

The “Get Customer”, “Get Address”, and “GetCustomerAccountID” action buttons will be visible until the Approved step. Once the user clicks the submit button, the buttons become invisible.

Action Variable Name	Available Step	Comments
getCustomer	Start , In Progress	Get Customer will be displayed till approved step.
getAddress	Start , In Progress	Get Address will be displayed till approved step.
getCustomerAccountID	Start , In Progress	GetCustomerAccountID will be displayed till approved step.

## Sample Payloads

- Refer to [Appendix G: Sample Payload for Get Customer](#)
- Refer to [Appendix H: Sample Response for Get Customer](#)
- Refer to [Appendix I: Sample Payload for Get Address](#)
- Refer to [Appendix J: Sample Response for Get Address](#)
- Refer to [Appendix K: Sample Payload for Org Customer](#)
- Refer to [Appendix L: Sample Response for Org Customer](#)

## Appendix A: Customer Sync Details Template

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://xmlns.oracle.com/apps/fnd/ServiceBean"
xmlns:par="http://xmlns.oracle.com/apps/ar/hz/service/party">

  <soapenv:Header>

    <ser:ServiceBean_Header>

      <ser:RESPONSIBILITY_NAME>System Administrator</ser:RESPONSIBILITY_NAME>

<ser:RESPONSIBILITY_APPL_NAME>SYSADMIN</ser:RESPONSIBILITY_APPL_NAME>
<ser:SECURITY_GROUP_NAME>STANDARD</ser:SECURITY_GROUP_NAME>
<ser:NLS_LANGUAGE>AMERICAN</ser:NLS_LANGUAGE>

      <ser:ORG_ID>204</ser:ORG_ID>

    </ser:ServiceBean_Header>

    <wsse:Security soapenv:mustUnderstand="1"
xmlns:env="http://schemas.xmlsoap.org/soapenv/envelope/" xmlns="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-
1.0.xsd"><wsse:UsernameToken xmlns="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">

      <wsse:Username>{{USERNAME}}</wsse:Username>

      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-
token-profile-1.0#PasswordText">{{PASSWORD}}</wsse:Password>

    </wsse:UsernameToken>

  </wsse:Security>

</soapenv:Header>

<soapenv:Body>

  <par:DqmSearchService_FindParties>

    <initMsgList>T</initMsgList>

    <withinOS></withinOS>

    <ruleId>61</ruleId>

    <search>

      <AttributeName>PARTY.PARTY_ALL_NAMES</AttributeName>

      <AttributeValue>{{_transaction_customer_t_company_name}}</AttributeValue>

    </search>


    <partyStatus></partyStatus>

    <restrictSql></restrictSql>

  </par:DqmSearchService_FindParties>

</soapenv:Body>

</soapenv:Envelope>
```



```
<matchType></matchType>  
</par:DqmSearchService_FindParties>  
</soapenv:Body>  
</soapenv:Envelope>
```

## Appendix B: Get Organization Details Template

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://xmlns.oracle.com/apps/fnd/ServiceBean"
xmlns:par="http://xmlns.oracle.com/apps/ar/hz/service/party">

  <soapenv:Header>

    <ser:ServiceBean_Header>

      <ser:RESPONSIBILITY_NAME>System Administrator</ser:RESPONSIBILITY_NAME>

      <ser:RESPONSIBILITY_APPL_NAME>SYSADMIN</ser:RESPONSIBILITY_APPL_NAME>

      <ser:SECURITY_GROUP_NAME>STANDARD</ser:SECURITY_GROUP_NAME>

      <ser:NLS_LANGUAGE>AMERICAN</ser:NLS_LANGUAGE>

      <ser:ORG_ID>204</ser:ORG_ID>

    </ser:ServiceBean_Header>

    <wsse:Security soapenv:mustUnderstand="1"
xmlns:env="http://schemas.xmlsoap.org/soapenv/envelope/" xmlns="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-
1.0.xsd"><wsse:UsernameToken xmlns="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">

      <wsse:Username>{{USERNAME}}</wsse:Username>

      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-
token-profile-1.0#PasswordText">{{PASSWORD}}</wsse:Password>

    </wsse:UsernameToken>

  </wsse:Security>

</soapenv:Header>

<soapenv:Body>

  <par:OrganizationService_GetOrganization>

    <orgID>{{customerID_t}}</orgID>

    <orgOrigSys></orgOrigSys>

    <orgOrigSysRef></orgOrigSysRef>

  </par:OrganizationService_GetOrganization>

</soapenv:Body>

</soapenv:Envelope>
```

## Appendix C: Get Customer Account Payload Template

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://xmlns.oracle.com/apps/fnd/ServiceBean"
xmlns:acc="http://xmlns.oracle.com/apps/ar/hz/service/account">
  <soapenv:Header>
    <ser:ServiceBean_Header>
      <ser:RESPONSIBILITY_NAME>$Responsibility_Name$</ser:RESPONSIBILITY_NAME>
      <ser:RESPONSIBILITY_APPL_NAME>$Application_Name$</ser:RESPONSIBILITY_APPL_NAME>
      <ser:SECURITY_GROUP_NAME>$Security_Group_Name$</ser:SECURITY_GROUP_NAME>
      <ser:NLS_LANGUAGE>$Language$</ser:NLS_LANGUAGE>
      <ser:LANGUAGE>$Language$</ser:LANGUAGE>
      <ser:ORG_ID>$Org_ID$</ser:ORG_ID>
    </ser:ServiceBean_Header>
    <wsse:Security soapenv:mustUnderstand="1"
xmlns:env="http://schemas.xmlsoap.org/soapenv/envelope/" xmlns="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-
1.0.xsd"><wsse:UsernameToken xmlns="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
      <wsse:Username>{{USERNAME}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-
token-profile-1.0#PasswordText">{{PASSWORD}}</wsse:Password>
    </wsse:UsernameToken>
  </wsse:Security>
</soapenv:Header>
<soapenv:Body>
  <acc:OrgCustomerService_GetOrgCustomer>
    <orgID>{{partyID}}</orgID>
    <orgOrigSys></orgOrigSys>
    <orgOrigSysRef></orgOrigSysRef>
  </acc:OrgCustomerService_GetOrgCustomer>
</soapenv:Body>
</soapenv:Envelope>
```

## Appendix D: BML for Get Customer Action

```
system="EBS-Customer";
operation="GetCustomerInfoDQM";
customerOrgSoapRequestLocation = commerce.getTemplateLocation(system, operation);

payload = dict("string");

//Get User Info from data table and replace it in Template file
resultSet = bmql("Select UserName,SoapEndPoint from INT_SYSTEM_DETAILS where System =
$system");
customerOrgwebserviceEndPoint="";

//loop through the records
for record in resultSet {
    userName = get(record,"UserName");
    password = commerce.getPassword(system);
    put(payload,"USERNAME", userName);
    put(payload,"PASSWORD", password);
    customerOrgwebserviceEndPoint=get(record,"SoapEndPoint");
}

defaultErrorMessage="";

customerOrgSoapRequest
=applytemplate(customerOrgSoapRequestLocation,payload,defaultErrorMessage);

errorString = "Error in Organization webservice invocation";

headerValues = dict("string");
put(headerValues, "Content-Type", "text/xml; charset=utf-8");

customerOrgsoapResponse= urldatabyPost(customerOrgwebserviceEndPoint, customerOrgSoapRequest
,errorString,headerValues); // sends the soap call and returns response to variable.
customerOrgsoapResponse =replace(customerOrgsoapResponse ," xmlns=\"\"","");
customerOrgsoapResponse =replace(customerOrgsoapResponse ," xsi:nil=\"true\"","");
```



```
print customerOrgsoapResponse ;
messageString="";
partyID="";
customer_company_name="";
customer_country="";
customer_address="";
customer_city="";
customer_state="";
customer_zip="";

if(customerOrgsoapResponse==errorString){
    messageString=errorString;
}
else{
    startTag = "<matchedParty";
    endTag = "</matchedParty>";

    xpaths = string[6];
    xpaths[0]="//Country";
    xpaths[1]="//Address1";
    xpaths[2]="//City";
    xpaths[3]="//State";
    xpaths[4]="//PostalCode";
    xpaths[5]="//County";

    xpaths2=string[3];
    xpaths2[0]="//PartyId";
    xpaths2[1]="//PartyName";
    xpaths2[2]="//PartyType";

    AddressString ="";
    j=1;
```

```

soapSplit=split(customerOrgsoapResponse, startTag);
intArr = range(sizeofarray(soapSplit));

countryArray="[";
address1Array="[";
cityArray="[";
stateArray="[";
postalCodeArray="[";
countyArray="[";
companyNameArray="[";

if(sizeofarray(soapSplit)>1){
    messageString=messageString+"<select id=\"mySelect\"
onclick=\"myFunction()\">";
    for i in intArr {
        startIndex = find (customerOrgsoapResponse, startTag);
        endIndex = find (customerOrgsoapResponse, endTag);

        if(startIndex >0 AND endIndex >0){
            AddressString = substring(customerOrgsoapResponse,
startIndex,endIndex);
            AddressString =AddressString+endTag ;

customerOrgsoapResponse=replace (customerOrgsoapResponse,AddressString ,"",1);
            output = readxmlsingle(AddressString , xpath2);
            output1 = readxmlsingle(AddressString , xpath1);

            if(i==0){
                partyID=get (output, xpath2[0]);
                customer_company_name=get (output, xpath2[1]);
                messageString=messageString+"<option value=";
                messageString=messageString+"\""+get (output,
xpath2[0])+"\" selected >"+get (output, xpath2[0])+"-"+get (output, xpath2[1]);
                messageString=messageString+"</option>";

```

```

countryArray=countryArray+"\\"+get (output1,
xpath[0])+"\\";
address1Array=address1Array+"\\"+get (output1,
xpath[1])+"\\";
cityArray=cityArray+"\\"+get (output1, xpath[2])+"\\";
stateArray=stateArray+"\\"+get (output1, xpath[3])+"\\";
postalCodeArray=postalCodeArray+"\\"+get (output1,
xpath[4])+"\\";
countyArray=countyArray+"\\"+get (output1, xpath[5])+"\\";
companyNameArray=companyNameArray+"\\"+get (output,
xpath2[1])+"\\";

customer_country=get (output1, xpath[0]);
customer_address=get (output1, xpath[1]);
customer_city=get (output1, xpath[2]);
customer_state=get (output1, xpath[3]);
customer_zip=get (output1, xpath[4]);
}
else{
messageString=messageString+"<option value=";
messageString=messageString+"\\"+get (output,
xpath2[0])+"\\">"+get (output, xpath2[0])+"-"+get (output, xpath2[1]);
messageString=messageString+"</option>";

countryArray=countryArray+", "+"+"\\"+get (output1,
xpath[0])+"\\";
address1Array=address1Array+", "+"+"\\"+get (output1,
xpath[1])+"\\";
cityArray=cityArray+", "+"+"\\"+get (output1, xpath[2])+"\\";
stateArray=stateArray+", "+"+"\\"+get (output1,
xpath[3])+"\\";
postalCodeArray=postalCodeArray+", "+"+"\\"+get (output1,
xpath[4])+"\\";
countyArray=countyArray+", "+"+"\\"+get (output1,
xpath[5])+"\\";
companyNameArray=companyNameArray+", "+"+"\\"+get (output,
xpath2[1])+"\\";

```

```

        }
    }
}

countryArray=countryArray+"];";
address1Array=address1Array+"];";
cityArray=cityArray+"];";
stateArray=stateArray+"];";
postalCodeArray=postalCodeArray+"];";
countyArray=countyArray+"];";
companyNameArray=companyNameArray+"];";

messageString=messageString+"</select>";

messageString=messageString+"<script>";

messageString=messageString+"var country="+countryArray;
messageString=messageString+"var address="+address1Array;
messageString=messageString+"var city="+cityArray;
messageString=messageString+"var state="+stateArray;
messageString=messageString+"var zip="+postalCodeArray;
messageString=messageString+"var companyName="+companyNameArray;

messageString=messageString+"function myFunction() {";
messageString=messageString+"var x =
document.getElementById(\"mySelect\").selectedIndex;";

messageString=messageString+"document.getElementById(\"_customer_t_company_name\").value=companyName[x];";

messageString=messageString+"document.getElementById(\"partyID\").value=document.getElementsByTagName(\"option\")[x].value;";

messageString=messageString+"document.getElementById(\"_customer_t_country\").value=country[x];";

```

```

        messageString=messageString+"document.getElementById(\"_customer_t_address\").value=ad
dress[x];";

        messageString=messageString+"document.getElementById(\"_customer_t_city\").value=city[
x];";

        messageString=messageString+"document.getElementsByName(\"_customer_t_state_text\") [0]
.value=state[x];";

        messageString=messageString+"document.getElementById(\"_customer_t_zip\").value=zip[x]
;";

        messageString=messageString+"}";

        messageString=messageString+"var selectedItem =
sessionStorage.getItem(\"SelectedItem\");";

        messageString=messageString+"var element =
document.getElementById(\"mySelect\");";

        messageString=messageString+"element.value = selectedItem;";

        messageString=messageString+"$(\"#mySelect\").change(function() { ";
        messageString=messageString+"var dropVal = $(this).val();";
        messageString=messageString+"sessionStorage.setItem(\"SelectedItem\",
dropVal);";
        messageString=messageString+"});";

        messageString=messageString+"</script>";

    }else{
        messageString="Error:No User exists , please enter again";
    }
}

messageString="1~customerDetailsMsg~"+messageString+"|"+"1~_customer_t_company_name~"+
customer_company_name+"|";

messageString=messageString+"1~_customer_t_country~"+customer_country+"|1~_customer_t_
address~"+customer_address+"|1~_customer_t_address_2~|1~_customer_t_city~"+customer_city+"|1
~_customer_t_state~"+customer_state+"|1~_customer_t_zip~"+customer_zip+"|";

messageString=messageString+"1~partySiteID~|1~_invoiceTo_t_company_name~|1~_invoiceTo_
t_address~|1~_invoiceTo_t_country~|1~partyID~"+partyID+"|";

messageString=messageString+"1~_invoiceTo_t_address_2~|1~_invoiceTo_t_city~|1~_invoice
To_t_state~|1~_invoiceTo_t_zip~|1~addressDetailsMessage~|";

messageString=replace (messageString, "null", "");

return messageString;

```

## Appendix E: BML for Get Address Action

```
system="EBS-Address";
operation="GetCustomerInfoAddress";

customerOrgSoapRequestLocation = commerce.getTemplateLocation(system, operation);

payload = dict("string");

//Get User Info from data table and replace it in Template file
resultSet = bmql("Select UserName,SoapEndPoint from INT_SYSTEM_DETAILS where System =
$system");

customerOrgwebserviceEndPoint="";
//loop through the records
for record in resultSet {
    userName = get(record,"UserName");
    password = commerce.getPassword(system);
    put(payload,"USERNAME", userName);
    put(payload,"PASSWORD", password);
    customerOrgwebserviceEndPoint=get(record,"SoapEndPoint");
}

defaultErrorMessage="";
put(payload,"operation",operation);
put(payload,"customerID_t",partyID);
customerOrgSoapRequest
=applytemplate(customerOrgSoapRequestLocation,payload,defaultErrorMessage);

errorString = "Error in Organization webservice invocation";

headerValues = dict("string");
put(headerValues, "Content-Type", "text/xml; charset=utf-8");
```

```
customerOrgsoapResponse= urldatabypost(customerOrgwebserviceEndPoint, customerOrgSoapRequest
,errorString,headerValues); // sends the soap call and returns response to variable.
```

```
print (customerOrgSoapRequest );
```

```
print (customerOrgsoapResponse);
```

```
messageString="";
```

```
if(customerOrgsoapResponse==errorString){
```

```
    messageString=errorString;
```

```
}
```

```
else{
```

```
    startTag = "<PartySiteObjs>";
```

```
    endTag = "</PartySiteObjs>";
```

```
    validAddressString ="";
```

```
    j=1;
```

```
    soapSplit=split(customerOrgsoapResponse, "<ContactObjs>");
```

```
    customerOrgsoapResponse=soapSplit[sizeofarray(soapSplit)-1];
```

```
    soapSplit=split(customerOrgsoapResponse,startTag);
```

```
    intArr = range(sizeofarray(soapSplit));
```

```
    xpaths = string[8];
```

```
    xpaths[0]="//Country";
```

```
    xpaths[1]="//Address1";
```

```
    xpaths[2]="//City";
```

```
    xpaths[3]="//State";
```

```
    xpaths[4]="//PostalCode";
```

```
    xpaths[5]="//County";
```

```
    xpaths[6]="//Address2";
```

```
    xpaths[7]="//PartySiteId";
```

```
    xpathsMultiple=string[1];
```

```
    xpathsMultiple[0]="//SiteUseType";
```

```
    attributeValues=string[10];
```

```

Country="";
Address1="";
City="";
State="";
PostalCode="";
County="";
Address2="";
PartySiteID="";
defaultAddressString="";

counter=0;
for s in attributeValues{
    attributeValues[counter]="[";
    counter=counter+1;
}

if(sizeofarray(soapSplit)>1){

    messageString=messageString+"<select id=\"mySelect2\"
onclick=\"myFunction2()\">";
    addressCounter=0;
    for i in intArr {
        startIndex = find (customerOrgsoapResponse, startTag);
        endIndex = find (customerOrgsoapResponse, endTag);

        if(startIndex >0 AND endIndex >0){
            validAddressString = substring(customerOrgsoapResponse,
startIndex,endIndex);
            validAddressString =validAddressString+endTag ;

            customerOrgsoapResponse=replace(customerOrgsoapResponse,validAddressString ,"",1);
            validAddressString =replace(validAddressString
,"xsi:nil=\"true\"", "");

```



```

        if(find (validAddressString, "<PartySiteUseObjs>")==-1){
            continue;
        }

outputMultiple=readxmlmultiple (validAddressString,xpathsMultiple);
partySiteUses=get (outputMultiple, xpathsMultiple[0]);

shipToflag="No";
billToFlag="No";
for partySiteUse in partySiteUses{
    if (partySiteUse=="SHIP_TO"){
        shipToflag="Yes";
    }
    if (partySiteUse=="BILL_TO"){
        billToFlag="Yes";
    }
}

if (shipToflag=="No"){
    continue;
}

output = readxmlsingle (validAddressString, xpaths);
Country=get (output, xpaths[0]);
Address1=get (output, xpaths[1]);
City=get (output, xpaths[2]);
State=get (output, xpaths[3]);
PostalCode=get (output, xpaths[4]);
County=get (output, xpaths[5]);
Address2=get (output, xpaths[6]);
PartySiteID=get (output, xpaths[7]);

if (addressCounter==0){

```

```

        messageString=messageString+"<option value=";
        addressString=Address1+" , "+County+" , "+City+" ,
"+State+" , "+Country+" , "+PostalCode;
        messageString=messageString+"\""+addressString+"\"
selected>"+addressString;

        messageString=messageString+"</option>";

        counter=0;
        for m in xpaths{

                attributeValues[counter]=attributeValues[counter]+"\""+get (output,
xpaths[counter])+"\"";

                counter=counter+1;
        }
        attributeValues[8]=attributeValues[8]+"\""+shipToFlag+"\"";
        attributeValues[9]=attributeValues[9]+"\""+billToFlag+"\"";

        defaultAddressString=defaultAddressString+"1~_customer_t_country~"+Country+"|1~_customer_t_address~"+Address1+"|1~_customer_t_address_2~"+Address2+"|";

        defaultAddressString=defaultAddressString+"1~_customer_t_city~"+City+"|1~_customer_t_state~"+State+"|1~_customer_t_zip~"+PostalCode+"|";

        defaultAddressString=defaultAddressString+"1~partySiteID~"+PartySiteID;

        if (billToFlag=="Yes") {

                defaultAddressString=defaultAddressString+"|1~_invoiceTo_t_company_name~"+_transaction_customer_t_company_name+"|1~_invoiceTo_t_address~"+Address1+"|1~_invoiceTo_t_country~"+Country+"|";

                defaultAddressString=defaultAddressString+"|1~_invoiceTo_t_address_2~"+Address2+"|1~_invoiceTo_t_city~"+City+"|1~_invoiceTo_t_state~"+State+"|1~_invoiceTo_t_zip~"+PostalCode+"|";

        }

        else{

                defaultAddressString=defaultAddressString+"|1~_invoiceTo_t_company_name~|1~_invoiceTo_t_address~|1~_invoiceTo_t_country~|";

```

```

        defaultAddressString=defaultAddressString+"1~_invoiceTo_t_address_2~|1~_invoiceTo_t_ci
ty~|1~_invoiceTo_t_state~|1~_invoiceTo_t_zip~|";
    }
}
else{
    addressString=Address1+" , "+County+" , "+City+" ,
"+State+" , "+Country+" , "+PostalCode;
    messageString=messageString+"<option value=";

messageString=messageString+"\\""+addressString+"\\">" +addressString;
    messageString=messageString+"</option>";

    counter=0;
    for m in xpaths{

        attributeValues[counter]=attributeValues[counter]+","+"\""+get(output,
xpaths[counter])+"\"";

            counter=counter+1;
        }

attributeValues[8]=attributeValues[8]+","+"\""+shipToflag+"\"";

attributeValues[9]=attributeValues[9]+","+"\""+billToFlag+"\"";
    }
    addressCounter=addressCounter+1;
}

}

counter=0;
for s in attributeValues{
    attributeValues[counter]=attributeValues[counter]+";";
    counter=counter+1;
}

messageString=messageString+"</select>";

```

```
messageString=messageString+"<script>";

messageString=messageString+"var country="+attributeValues[0];
messageString=messageString+"var address="+attributeValues[1];
messageString=messageString+"var city="+attributeValues[2];
messageString=messageString+"var state="+attributeValues[3];
messageString=messageString+"var zip="+attributeValues[4];
messageString=messageString+"var address2="+attributeValues[6];
messageString=messageString+"var partySiteID="+attributeValues[7];
messageString=messageString+"var billToFlag="+attributeValues[9];

messageString=messageString+"function myFunction2 () {";

messageString=messageString+"var x =
document.getElementById(\"mySelect2\").selectedIndex;";

messageString=messageString+"document.getElementById(\"_customer_t_country\").value=country[x];";

messageString=messageString+"document.getElementById(\"_customer_t_address\").value=address[x];";

messageString=messageString+"document.getElementById(\"_customer_t_address_2\").value=address2[x];";

messageString=messageString+"document.getElementById(\"_customer_t_city\").value=city[x];";

messageString=messageString+"document.getElementsByName(\"_customer_t_state_text\")[0].value=state[x];";

messageString=messageString+"document.getElementById(\"_customer_t_zip\").value=zip[x];";

messageString=messageString+"document.getElementById(\"partySiteID\").value=partySiteID[x];";

messageString=messageString+"if (billToFlag[x]==\"Yes\") {";
```

```

        messageString=messageString+"document.getElementById(\"_invoiceTo_t_country\").value=c
ountry[x];";

        messageString=messageString+"document.getElementById(\"_invoiceTo_t_address\").value=a
ddress[x];";

        messageString=messageString+"document.getElementById(\"_invoiceTo_t_address_2\").value
=address2[x];";

        messageString=messageString+"document.getElementById(\"_invoiceTo_t_city\").value=city
[x];";

        messageString=messageString+"document.getElementsByName(\"_invoiceTo_t_state_text\")[0
].value=state[x];";

        messageString=messageString+"document.getElementById(\"_invoiceTo_t_zip\").value=zip[x
];";

        messageString=messageString+"document.getElementById(\"_invoiceTo_t_company_name\").va
lue=document.getElementById(\"_customer_t_company_name\").value;";

        messageString=messageString+"}";

        messageString=messageString+"else{";

        messageString=messageString+"document.getElementById(\"_invoiceTo_t_country\").value=\
";";";

        messageString=messageString+"document.getElementById(\"_invoiceTo_t_address\").value=\
";";";

        messageString=messageString+"document.getElementById(\"_invoiceTo_t_address_2\").value
=\\"";";";

        messageString=messageString+"document.getElementById(\"_invoiceTo_t_city\").value=\\"
";";";

        messageString=messageString+"document.getElementsByName(\"_invoiceTo_t_state_text\")[0
].value=\\"";";";

        messageString=messageString+"document.getElementById(\"_invoiceTo_t_zip\").value=\\"";
";";

```

```

        messageString=messageString+"document.getElementById(\"_invoiceTo_t_company_name\").value=\"\";";
        messageString=messageString+}";

        messageString=messageString+}</script>";
        messageString="1~addressDetailsMessage~"+messageString+"|";
        messageString=messageString+defaultAddressString;
        messageString=replace(messageString,"null","");
    }
    else{
        messageString="Error: No addresses exist for the given customer";
        messageString="1~addressDetailsMessage~"+messageString+"|";

        messageString=messageString+"1~_customer_t_country~|1~_customer_t_address~|1~_customer_t_address_2~|";

        messageString=messageString+"1~_customer_t_city~|1~_customer_t_state~|1~_customer_t_zip~|";

        messageString=messageString+"1~partySiteID~|1~_invoiceTo_t_company_name~|1~_invoiceTo_t_address~|1~_invoiceTo_t_country~|";

        messageString=messageString+"1~_invoiceTo_t_address_2~|1~_invoiceTo_t_city~|1~_invoiceTo_t_state~|1~_invoiceTo_t_zip~|";
    }
}
return messageString;

```

## Appendix F: BML for Get Customer Account ID Action

```
//get soapRequest
soapRequest = commerce.getCustAcntID("EBS-CustomerAccount");
print("soapRequest  " +soapRequest);
//get soapresponse

soapResponse = commerce.invokeWebService("EBS-CustomerAccount", soapRequest);

startIndex= "<CustAcctId>";
endIndex= "</CustAcctId>";
customerIdStartIndex = find(soapResponse, startIndex);
customerIdEndIndex = find(soapResponse ,  endIndex);
CustAccountID = "" ;

//CustAccountID = substring(soapResponse, startIndex+12, endIndex);

if (customerIdStartIndex >= 0 and customerIdEndIndex >= 0) {
    customerIdStartIndex = customerIdStartIndex + len(startIndex);
    CustAccountID = substring(soapResponse , customerIdStartIndex , customerIdEndIndex );
} else {
    CustAccountID = "Customer Id not exist For this PartyId";
    return "1~customerID_t~"+CustAccountID+"|";
}

customerIdStartIndex =find (soapResponse, "<OrgCustomerService_GetOrgCustomer_Response");
if(customerIdStartIndex== -1 ) // This will catch the webservice exceptions
{

return "1~integrationStatusTransaction~ERROR in Webservice
Invocation"+"|1~soapResponse~"+soapResponse ;
}
else{
return "1~customerID_t~"+custAccountID +"|";
}
```

## Appendix G: Sample Payload for Get Customer

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://xmlns.oracle.com/apps/fnd/ServiceBean"
xmlns:par="http://xmlns.oracle.com/apps/ar/hz/service/party">

  <soapenv:Header>

    <ser:ServiceBean_Header>

      <ser:RESPONSIBILITY_NAME>System Administrator</ser:RESPONSIBILITY_NAME>

<ser:RESPONSIBILITY_APPL_NAME>SYSADMIN</ser:RESPONSIBILITY_APPL_NAME>
<ser:SECURITY_GROUP_NAME>STANDARD</ser:SECURITY_GROUP_NAME>
<ser:NLS_LANGUAGE>AMERICAN</ser:NLS_LANGUAGE>

      <ser:ORG_ID>204</ser:ORG_ID>

    </ser:ServiceBean_Header>

    <wsse:Security soapenv:mustUnderstand="1"
xmlns:env="http://schemas.xmlsoap.org/soapenv/envelope/" xmlns="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-
1.0.xsd"><wsse:UsernameToken xmlns="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">

      <wsse:Username>sysadmin</wsse:Username>

      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-
token-profile-1.0#PasswordText">sysadmin</wsse:Password>

    </wsse:UsernameToken>

  </wsse:Security>

</soapenv:Header>

<soapenv:Body>

  <par:DqmSearchService_FindParties>

    <initMsgList>T</initMsgList>

    <withinOS></withinOS>

    <ruleId>61</ruleId>

    <search>

<AttributeName>PARTY.PARTY_ALL_NAMES</AttributeName>

      <AttributeValue>Imaging Innovations, Inc.</AttributeValue>

    </search>

    <partyStatus></partyStatus>


    <restrictSql></restrictSql>

  </par:DqmSearchService_FindParties>

</soapenv:Body>

</Envelope>
```





```
<matchType></matchType>  
</par:DqmSearchService_FindParties>  
</soapenv:Body>  
</soapenv:Envelope
```

## Appendix H: Sample Response for Get Customer

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:wsa="http://www.w3.org/2005/08/addressing">
```

```
<env:Header>
```

```
<wsa:MessageID>urn:B27F0710868111E4BFAA59DFEF5E2049</wsa:MessageID>
```

```
<wsa:ReplyTo>
```

```
<wsa:Address>http://www.w3.org/2005/08/addressing/anonymous</wsa:Address>
```

```
</wsa:ReplyTo>
```

```
<wsa:FaultTo>
```

```
<wsa:Address>http://www.w3.org/2005/08/addressing/anonymous</wsa:Address>
```

```
</wsa:FaultTo>
```

```
</env:Header>
```

```
<env:Body>
```

```
<DqmSearchService_FindParties_Response xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:oans="http://xmlns.oracle.com/apps/ar/hz/service/party"
xmlns="http://xmlns.oracle.com/apps/ar/hz/service/party">
```

```
<matchedParty xmlns="">
```

```
<PartyId>4429</PartyId>
```

```
<MatchScore>100</MatchScore>
```

```
<PartyNumber>2813</PartyNumber>

<PartyName>Business World</PartyName>

<PartyType>ORGANIZATION</PartyType>

<Address1>2391 L Street</Address1>

<Address2 xsi:nil="true"/>

<Address3 xsi:nil="true"/>

<Address4 xsi:nil="true"/>

<City>San Jose</City>

<State>CA</State>

<Country>US</Country>

<PrimaryPhoneCountryCode xsi:nil="true"/>

<PrimaryPhoneAreaCode>650</PrimaryPhoneAreaCode>

<PrimaryPhoneNumber>5063120</PrimaryPhoneNumber>

<PrimaryEmail>nobody@localhost</PrimaryEmail>

</matchedParty>

<matchedParty xmlns="">

  <PartyId>477201</PartyId>
```

```
<MatchScore>100</MatchScore>

<PartyNumber>59785</PartyNumber>

<PartyName>Business World</PartyName>

<PartyType>ORGANIZATION</PartyType>

<Address1>hahdm</Address1>

<Address2 xsi:nil="true"/>

<Address3 xsi:nil="true"/>

<Address4 xsi:nil="true"/>

<City xsi:nil="true"/>

<State xsi:nil="true"/>

<Country>US</Country>

<PrimaryPhoneCountryCode xsi:nil="true"/>

<PrimaryPhoneAreaCode xsi:nil="true"/>

<PrimaryPhoneNumber xsi:nil="true"/>

<PrimaryEmail xsi:nil="true"/>

</matchedParty>

<matchedParty xmlns="">
```

```
<PartyId>478203</PartyId>

<MatchScore>100</MatchScore>

<PartyNumber>59806</PartyNumber>

<PartyName>Business World</PartyName>

<PartyType>ORGANIZATION</PartyType>

<Address1>ffghgh</Address1>

<Address2 xsi:nil="true"/>

<Address3 xsi:nil="true"/>

<Address4 xsi:nil="true"/>

<City xsi:nil="true"/>

<State xsi:nil="true"/>

<Country>US</Country>


<PrimaryPhoneCountryCode xsi:nil="true"/>

<PrimaryPhoneAreaCode xsi:nil="true"/>

<PrimaryPhoneNumber xsi:nil="true"/>

<PrimaryEmail xsi:nil="true"/>

</matchedParty>
```



```
</DqmSearchService_FindParties_Response>
```

```
</env:Body>
```

```
</env:Envelope>
```

## Appendix I: Sample Payload for Get Address

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://xmlns.oracle.com/apps/fnd/ServiceBean"
xmlns:par="http://xmlns.oracle.com/apps/ar/hz/service/party">

  <soapenv:Header>

    <ser:ServiceBean_Header>

      <ser:RESPONSIBILITY_NAME>System Administrator</ser:RESPONSIBILITY_NAME>

      <ser:RESPONSIBILITY_APPL_NAME>SYSADMIN</ser:RESPONSIBILITY_APPL_NAME>

      <ser:SECURITY_GROUP_NAME>STANDARD</ser:SECURITY_GROUP_NAME>

      <ser:NLS_LANGUAGE>AMERICAN</ser:NLS_LANGUAGE>

      <ser:ORG_ID>204</ser:ORG_ID>

    </ser:ServiceBean_Header>

    <wsse:Security soapenv:mustUnderstand="1"
xmlns:env="http://schemas.xmlsoap.org/soapenv/envelope/" xmlns="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-
1.0.xsd"><wsse:UsernameToken xmlns="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">

      <wsse:Username>sysadmin</wsse:Username>

      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-
token-profile-1.0#PasswordText">sysadmin</wsse:Password>

    </wsse:UsernameToken>

  </wsse:Security>

</soapenv:Header>

<soapenv:Body>

  <par:OrganizationService_GetOrganization>

    <orgID>1001</orgID>

    <orgOrigSys></orgOrigSys>

    <orgOrigSysRef></orgOrigSysRef>

  </par:OrganizationService_GetOrganization>

</soapenv:Body>

</soapenv:Envelope>
```

## Appendix J: Sample Response for Get Address

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:wsa="http://www.w3.org/2005/08/addressing">

  <env:Header>

    <wsa:MessageID>urn:69328CB0956A11E4BFFB8DB952606CE2</wsa:MessageID>

    <wsa:ReplyTo>

      <wsa:Address>http://www.w3.org/2005/08/addressing/anonymous</wsa:Address>

    </wsa:ReplyTo>

    <wsa:FaultTo>

      <wsa:Address>http://www.w3.org/2005/08/addressing/anonymous</wsa:Address>

    </wsa:FaultTo>

  </env:Header>

  <env:Body>

    <OrganizationService_GetOrganization_Response
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:oans="http://xmlns.oracle.com/apps/ar/hz/service/party"
xmlns="http://xmlns.oracle.com/apps/ar/hz/service/party">

      <organization xmlns="">

        <ActionType xsi:nil="true"/>

        <OrganizationId>1001</OrganizationId>

        <OrigSystem xsi:nil="true"/>

        <OrigSystemReference xsi:nil="true"/>

        <PartyNumber>1001</PartyNumber>

        <ValidatedFlag>N</ValidatedFlag>

        <Status>A</Status>

        <CategoryCode>Telecom</CategoryCode>

        <Salutation xsi:nil="true"/>

        <OrganizationName>A T & T Solutions Inc</OrganizationName>

      </organization>

    </OrganizationService_GetOrganization_Response>

  </env:Body>

</env:Envelope>
```



```
<!-- other organization details listed here -->
<CommonObjId xsi:nil="true"/>
<ClassObjs>
  <!-- All the ClassObjs object information listed here -->
</ClassObjs>
<CreditRatingObjs>
  <!-- All the CreditRatingObjs object information listed here -->
</CreditRatingObjs>
<EmailObjs>
  <!-- All the EmailObjs object information listed here -->
</EmailObjs>
<FinancialReportObjs>
  <!-- All the FinancialReportObjs object information listed here -->
</FinancialReportObjs>
<ContactObjs>
  <!-- All the ContactObjs object information listed here -->
  <PersonProfileObj>
    <!-- All the PersonProfileObj object information listed here -->
  </PersonProfileObj>
</ContactObjs>
<ContactObjs>
  <!-- All the ContactObjs object information listed here -->
  <OrgContactRoleObjs>
    <!-- All the OrgContactRoleObjs object information listed here -->
  </OrgContactRoleObjs>
  <PartySiteObjs>
    <!-- All the PartySiteObjs object information listed here -->
    <LocationObj>
```

```
        <!-- All the LocationObj object information listed here -->
    </LocationObj>
</PartySiteObjs>
<PersonProfileObj>
    <!-- All the PersonProfileObj object information listed here -->
</PersonProfileObj>
<PhoneObjs>
    <!-- All the PhoneObjs object information listed here -->
</PhoneObjs>
</ContactObjs>
<OrigSysObjs>
    <!-- All the OrigSysObjs object information listed here -->
</OrigSysObjs>
<PartySiteObjs>
    <!-- All the PartySiteObjs object information listed here -->
    <LocationObj>
        <!-- All the LocationObj object information listed here -->
    </LocationObj>
    <OrigSysObjs>
        <!-- All the OrigSysObjs object information listed here -->
    </OrigSysObjs>
</PartySiteObjs>
<PartySiteUseObjs>
    <!-- All the PartySiteUseObjs object information listed here -->
</PartySiteUseObjs>
<PartySiteObjs>
<!-- All the PartySiteObjs object information listed here -->
    <LocationObj>
```

```
        <!-- All the LocationObj object information listed here -->
    </LocationObj>
</PartySiteObjs>
<RelationshipObjs>
    <!-- All the RelationshipObjs object information listed here -->
</RelationshipObjs>
<WebObjs>
    <!-- All the WebObjs object information listed here -->
</WebObjs>
<PartyUsageObjs>
    <!-- All the PartyUsageObjs object information listed here -->
</PartyUsageObjs>
</organization>
</OrganizationService_GetOrganization_Response>
</env:Body>
</env:Envelope>
```

## Appendix K: Sample Payload for Org Customer

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://xmlns.oracle.com/apps/fnd/ServiceBean"
xmlns:acc="http://xmlns.oracle.com/apps/ar/hz/service/account">

  <soapenv:Header>

    <ser:ServiceBean_Header>

      <ser:RESPONSIBILITY_NAME>Customers Online Superuser</ser:RESPONSIBILITY_NAME>

      <ser:RESPONSIBILITY_APPL_NAME>IMC</ser:RESPONSIBILITY_APPL_NAME>

      <ser:SECURITY_GROUP_NAME>STANDARD</ser:SECURITY_GROUP_NAME>

      <ser:NLS_LANGUAGE>AMERICAN</ser:NLS_LANGUAGE>

      <ser:LANGUAGE>AMERICAN</ser:LANGUAGE>

      <ser:ORG_ID>204</ser: ORG_ID>

    </ser:ServiceBean_Header>

    <wsse:Security soapenv:mustUnderstand="1"
xmlns:env="http://schemas.xmlsoap.org/soapenv/envelope/" xmlns="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-
1.0.xsd"><wsse:UsernameToken xmlns="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">

      <wsse:Username>apotter</wsse:Username>

      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-
token-profile-1.0#PasswordText">welcome</wsse:Password>

    </wsse:UsernameToken>

  </wsse:Security>

</soapenv:Header>

<soapenv:Body>

  <acc:OrgCustomerService_GetOrgCustomer>

    <orgID>1001</orgID>

    <orgOrigSys></orgOrigSys>

    <orgOrigSysRef></orgOrigSysRef>

  </acc:OrgCustomerService_GetOrgCustomer>

</soapenv:Body>

</soapenv:Envelope>
```

## Appendix L: Sample Response for Org Customer

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:wsa="http://www.w3.org/2005/08/addressing">
  <env:Header>
    <wsa:MessageID>urn:D879D860A21E11E49F4DA96600716400</wsa:MessageID>
    <wsa:ReplyTo>
      <wsa:Address>http://www.w3.org/2005/08/addressing/anonymous</wsa:Address>
    </wsa:ReplyTo>
    <wsa:FaultTo>
      <wsa:Address>http://www.w3.org/2005/08/addressing/anonymous</wsa:Address>
    </wsa:FaultTo>
  </env:Header>
  <env:Body>
    <OrgCustomerService_GetOrgCustomer_Response
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:oans="http://xmlns.oracle.com/apps/ar/hz/service/account"
xmlns="http://xmlns.oracle.com/apps/ar/hz/service/account">
      <orgCustomer xmlns="">
        <ActionType xsi:nil="true"/>
        <AccountObjs>
          <ActionType xsi:nil="true"/>
          <CustAcctId>1001</CustAcctId>
          <OrigSystem xsi:nil="true"/>
          <OrigSystemReference xsi:nil="true"/>
          <ParentObjectType>ORG_CUST</ParentObjectType>
          <ParentObjectId>1001</ParentObjectId>
          <AccountNumber>1001</AccountNumber>
          <Status>A</Status>
          <CustomerType>R</CustomerType>
          <CustomerClassCode>Telecom</CustomerClassCode>
          <Name>RA_CUSTOMERS_HZ</Name>
          <DynamicAttribute>
            <Name>Customer Status</Name>
            <Id xsi:nil="true"/>
          </DynamicAttribute>
        </AccountObjs>
      </orgCustomer>
    </OrgCustomerService_GetOrgCustomer_Response>
  </env:Body>
</env:Envelope>
```

```

        <Value xsi:type="xsd:string">Silver</Value>
        <Description>Silver Status</Description>
    </DynamicAttribute>
</DynamicAttributeGroups>
<CommonObjId xsi:nil="true"/>
<BankAcctUseObjs>
    <!--All BankAcctUseObjs related information listed here-->
</BankAcctUseObjs>
    <CustAcctContactObjs>
        <!--All CustAcctContactObjs related information listed here-->
    <OrigSysObjs>
        <!--All OrigSysObjs related information listed here-->
    </OrigSysObjs>
    <ContactRoleObjs>
        <!--All ContactRoleObjs related information listed here-->
    </OrigSysObjs>
    </ContactRoleObjs>
        </CustAcctContactObjs>
<CustAcctSiteObjs>
    <CustAcctSiteObjs>
        <OrigSysObjs>
<!--All OrigSysObjs related information listed here-->
        </OrigSysObjs>
    </CustAcctSiteObjs>

    <CustProfileAmtObjs>
        <!--All CustProfileAmtObjs related information listed here-->
    </CustProfileAmtObjs>
<PaymentMethodObjs>
    <!--All PaymentMethodObjs related information listed here-->
</PaymentMethodObjs>

<ClassObjs>
    <!--All ClassObjs related information listed here-->

```

```
</ClassObjs>

<CreditRatingObjs>
  <!--All CreditRatingObjs related information listed here-->
</CreditRatingObjs>
<EmailObjs>
  <!--All EmailObjs related information listed here-->
</EmailObjs>
<FinancialReportObjs>
  <!--All FinancialReportObjs related information listed here-->
</FinancialReportObjs>
<ContactObjs>
  <!--All ContactObjs related information listed here-->

  <PersonProfileObj>
    <!--All ContactObjs related information listed here-->
  </PersonProfileObj>


  <PartySiteUseObjs>
    <!--All PartySiteUseObjs related information listed here-->

  </PartySiteUseObjs>

<RelationshipObjs>
  <!--All PartySiteUseObjs related information listed here-->

</RelationshipObjs>

<WebObjs>
  <!--All WebObjs related information listed here-->
</WebObjs>
<PartyUsageObjs>
  <!--All PartyUsageObjs related information listed here-->
</PartyUsageObjs>
```



```
</OrganizationObj>  
</orgCustomer>  
</OrgCustomerService_GetOrgCustomer_Response>  
</env:Body>  
</env:Envelope>
```





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