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# Implement CPQ-EBS Material Reservation Reference Integration

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# Contents

## Purpose

The white paper describes the implementation of the Reference Integration between Oracle Configure, Price and Quote (CPQ) Cloud and Oracle E-Business Suite Material Reservation.

## 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 Material Reservation Reference Integration enables CPQ to perform material reservation functionality of EBS. Once an order is created, Line items can be reserved. Upon Cancellation of line item(s) or entire Order, Relieve can be performed. Relieve functionality will relieve the reservation done against the order. Reservation is done against an order and its corresponding line.

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*IMPORTANT: The integration is implemented using the following three actions "Reserve", "Relieve" (Transaction level) and "Relieve Line" (Transaction Line Level).*

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## Implementation Overview

### EBS Web Services

The following EBS web services are invoked:

» Web Service "INV_RESERVATION_PUB_Service" operation "CREATE_RESERVATION"

» Web Service "INV_RESERVATION_PUB_Service" operation "RELIEVE_RESERVATION"

» Web Service "INV_QUANTITY_TREE_PUB_Service" operation "CLEAR_QUANTITY_CACHE"

EBS Material Reservation Web Service Generation:

1. Login to the EBS environment.
2. Navigate to the web service as follows:
   a) **CREATE_RESERVATION and RELIEVE RESERVATION**: Integrated SOA gateway > Integration Repository > Supply Chain Management > Inventory Management > Material Reservation > Material Reservation Application Program Interface
   b) **CLEAR_QUANTITY_CACHE**: Integrated SOA gateway > Integration Repository > Supply Chain Management > Inventory Management > Inventory On Hand Balance  > Quantity tree Application Program Interface
3. Check the operation under procedures and functions to generate the corresponding web service.
   a) For "INV_RESERVATION_PUB_Service", check "CREATE_RESERVATION".
   b) For "INV_RESERVATION_PUB_ServiceE", check "RELIEVE_RESERVATION".
   c) For "INV_QUANTITY_TREE_PUB_Service", check "CLEAR_QUANTITY_CACHE".
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**
» **Step Transitions**

## Additional Changes

Additional changes outside the commerce process include:

» **Data Table**
» **File Manager**

# Implementation Details

## Attributes

Create/Modify the following attributes for the "Oracle Quote to Order" Commerce process.

**ATTRIBUTES LIST**

| Document | Attribute Name | Attribute Variable Name | Type | Description |
|---|---|---|---|---|
| Transaction Header | Org ID | orgID | Text | Org Id |
| Transaction Header | Order ID | headerID | Text | Order Id |
| Transaction Header | Reservation Status | reservationStatus | Integer | Order Reservation Status |
| Transaction Header | Warehouse Org ID | warehouseOrgID | Text | Ship To Org Id |
| Transaction Header | Soap Request | soapRequest | Text Area | Soap Request |
| Transaction Header | Soap Response | soapResponse | Text Area | Soap Response |
| Transaction Line | Document Number | _document_number | Text | Document Number |
| Transaction Line | Requested Quantity | requestedQuantity_l | Integer | Requested Quantity |
| Transaction Line | Requirement Date | requirementDate_l | Date | Requirement Date. Default value is a function ([link](link)). |
| Transaction Line | Reservation Id | reservationId_l | Integer | Reservation Id |
| Transaction Line | Reservation Status | reservationStatus_l | Text | Reservation Status |
| Transaction Line | Part Number | _part_number | Text | Part Number |
| Transaction Line | Reserved Quantity | reservedQuantity_l | Integer | Reserved Quantity |
| Transaction Line | Status | status_l | Text | Status |
| Transaction Line | Line ID | lineID | Text | Line ID |

## File Manager

Template file format information is located in the following table.

| System(key) | Operation(key) | Templates |
|---|---|---|
| MATERIAL RESERVATION | Reserve | Refer to Appendix A: Create Reservation Template |
| MATERIAL RESERVATION | ReserveLine | Refer to Appendix B: Create Reservation Line Template |
| MATERIAL RESERVATION | Relieve | Refer to Appendix C: Relieve Reservation Template |
| MATERIAL RESERVATION | RelieveLine | Refer to Appendix D: Relieve Reservation Line Template |
| MATERIAL RESERVATION | LineRelieve | Refer to Appendix E: Line Relieve Reservation Template |
| MATERIAL RESERVATION | UpdateReserve | Refer to Appendix F: Update Reservation Template |
| MATERIAL RESERVATION | UpdateReserveLine | Refer to Appendix G: Update Reservation Line Template |

## Data Tables

### INT_SYSTEM_DETAILS

| System(key) | Username | WebService | Endpoint |
|---|---|---|---|
| MATERIAL RESERVATION | &lt;Enter the username here to call the webservice endpoint&gt; | SOAP | &lt;Enter the webservice endpoint to call the service related to EBS&gt; |
| CLEAR_CACHE | &lt;Enter the username here to call the webservice endpoint&gt; | SOAP | &lt;Enter the webservice endpoint to call the service related to EBS&gt; |

### INT_SYSTEM_TEMPLATES

| System(key) | Operation(key) | Templates |
|---|---|---|
| MATERIAL RESERVATION | Reserve | &lt;Enter the template URL path that is uploaded in File manager&gt; |
| MATERIAL RESERVATION | ReserveLine | &lt;Enter the template URL path that is uploaded in File manager&gt; |
| MATERIAL RESERVATION | Relieve | &lt;Enter the template URL path that is uploaded in File manager&gt; |
| MATERIAL RESERVATION | RelieveLine | &lt;Enter the template URL path that is uploaded in File manager&gt; |
| MATERIAL RESERVATION | LineRelieve | &lt;Enter the template URL path that is uploaded in File manager&gt; |
| MATERIAL RESERVATION | UpdateReserve | &lt;Enter the template URL path that is uploaded in File manager&gt; |
| MATERIAL RESERVATION | UpdateReserveLine | &lt;Enter the template URL path that is uploaded in File manager&gt; |
| EBS | clearCache | &lt;Enter the template URL path that is uploaded in File manager&gt; |

## Library Functions

Six Commerce process library functions are created.

» **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 by the library function are shown in the below screenshot.



| Commerce BML Library Function Editor: Properties & Parameters | | | | |
|---|---|---|---|---|
| **Name:** | getTemplateLocation | **#** | **Parameter Name** | **Parameter Type** |
| **Variable Name:** | getTemplateLocation | 1 | system | String |
| **Description:** | | 2 | operation | String |
| **Return Type:** | String | | | |

**» String 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 by the library function are shown in the below screenshot.

**» String getTemplate(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;
}


headerValues = dict("string");
outFile = urldatabypost(templateUrl ,"","",headerValues ,true); // Get the file


//2. Get User Info from data table and replace it in Template file
//bmql query
resultSet = bmql("Select UserName from INT_SYSTEM_DETAILS where System = $system");


//loop through the records
for record in resultSet {
  userName = get(record,"UserName");
  password = commerce.getPassword(system);
  print userName;
  print password;
  outFile = replace(outFile,"{{USERNAME}}", userName);
  outFile = replace(outFile,"{{PASSWORD}}", password);
}


//. Return Template File
return outFile;
```

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



*IMPORTANT*: The getTemplate library function imports the getPassword library function.

```
headerFile_mod=headerFile;

print headerFile_mod;

// For Material Reservation

if(system == "MATERIAL RESERVATION" AND operation == "Reserve"){

      headerFile_mod= replace(headerFile_mod ,"{{Responsibility_Name}}","System
Administrator");

      headerFile_mod= replace(headerFile_mod ,"{{Application_Name}}","SYSADMIN");

      headerFile_mod= replace(headerFile_mod
,"{{Security_Group_Name}}","STANDARD");

      headerFile_mod= replace(headerFile_mod ,"{{Language}}","AMERICAN");

      headerFile_mod= replace(headerFile_mod ,"{{Org_Id}}",orgID);

}

if(system == "MATERIAL RESERVATION" AND operation == "Relieve"){

      headerFile_mod= replace(headerFile_mod ,"{{Responsibility_Name}}","System
Administrator");

      headerFile_mod= replace(headerFile_mod ,"{{Application_Name}}","SYSADMIN");

      headerFile_mod= replace(headerFile_mod
,"{{Security_Group_Name}}","STANDARD");

      headerFile_mod= replace(headerFile_mod ,"{{Language}}","AMERICAN");

      headerFile_mod= replace(headerFile_mod ,"{{Org_Id}}",orgID);

}

if(system == "EBS" AND operation == "queryOnHandSoap"){

      headerFile_mod= replace(headerFile_mod ,"{{Responsibility_Name}}","System
Administrator");

      headerFile_mod= replace(headerFile_mod ,"{{Application_Name}}","SYSADMIN");

      headerFile_mod= replace(headerFile_mod
,"{{Security_Group_Name}}","STANDARD");

      headerFile_mod= replace(headerFile_mod ,"{{Language}}","AMERICAN");

      headerFile_mod= replace(headerFile_mod ,"{{Org_Id}}",orgID);


}

if(system == "OM" AND operation == "OM"){

      headerFile_mod= replace(headerFile_mod
,"$Responsibility_Name$","ORDER_MGMT_SUPER_USER");

      headerFile_mod= replace(headerFile_mod ,"$Application_Name$","ONT");

      headerFile_mod= replace(headerFile_mod ,"$Security_Group_Name$","STANDARD");

      headerFile_mod= replace(headerFile_mod ,"$Language$","AMERICAN");
```

```
        headerFile_mod= replace(headerFile_mod ,"$Org_ID$",orgID);


}


if(system == "EBS-CustomerAccount" AND operation == "getID"){
        headerFile_mod= replace(headerFile_mod ,"$Responsibility_Name$","Customers
Online Superuser");
        headerFile_mod= replace(headerFile_mod ,"$Application_Name$","IMC");
        headerFile_mod= replace(headerFile_mod ,"$Security_Group_Name$","STANDARD");
        headerFile_mod= replace(headerFile_mod ,"$Language$","AMERICAN");
        headerFile_mod= replace(headerFile_mod ,"$Org_ID$",orgID);


}
return headerFile_mod;
```

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



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

| Name: | getDataSecurity | # | Parameter Name | Parameter Type |
|---|---|---|---|---|
| Variable Name: | getDataSecurity | 1 | system | String |
| Description: | | 2 | operation | String |
| | | 3 | headerFile | String |
| Return Type: | String | | | |

**Function Editor**

Hide Tools | 🔍 🔍                                                                 Editor Help

[ Attributes ] [ Function Wizard ] [ Debugger ] [ Library Function(s) ]
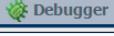
| **Main Document Attribute** | | | **Sub Document Attribute** | | **System Attribute** | |
|---|---|---|---|---|---|---|
| # | Attribute | | transactionLine | | # | Attribute |
| ❌ 1 | orgID | ⬇ | # | Attribute | | |
| ❌ 2 | warehouseOrgID | ⬇ | | | | |

» **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 attributes used by the library function are shown in the below screenshot.



> **String clearCache()**

```
system = "EBS";

operation="clearCache";


//Header Values

headerValues = dict("string");

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


//Get Endpoint for SOAP request

endpointResultSet = bmql("Select SoapEndPoint from INT_SYSTEM_DETAILS where System
= 'CLEAR_CACHE'");

endpoint = "";

for record in endpointResultSet {

  endpoint = get(record,"SoapEndPoint");

}
```

```
print endpoint;
//Payload dictionary
payload = dict("string");
//Get User Info from data table and put in dictionary
resultSet = bmql("Select UserName from INT_SYSTEM_DETAILS where System
='CLEAR_CACHE'");
for record in resultSet {
  username = get(record,"UserName");
  password = commerce.getPassword("CLEAR_CACHE");
  put(payload,"USERNAME", username);
  put(payload,"PASSWORD", password);
}
put(payload ,"ORGANIZATION_ID", orgID);
put(payload ,"ORG_ID", orgID);


result = "";
defaultErrorMessage="";
templateLocation = commerce.getTemplateLocation(system, operation);


clearCacheResponse = "";
clearCachePayload = "";


//apply template
clearCachePayload =applytemplate(templateLocation,payload,defaultErrorMessage);
print clearCachePayload;


clearCacheResponse = urldatabypost(endpoint, clearCachePayload, "", headerValues,
true);
print clearCacheResponse + "\n\n";


result = result + "|1~soapResponse~" + clearCacheResponse +
"|1~soapRequest~"+clearCachePayload +"|";
return "";
```

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



**IMPORTANT**: *The clearCache library functions imports the getPassword, getTemplateLocation and getTemplate library functions.*

## Actions

**Transaction Action**

The integration is implemented using two actions as follows:

**<u>Reserve</u>**

To reserve all the line item(s) for the Order Created/Updated, implement the "Reserve" action.

| System Variable Name | Type | Description |
|---|---|---|
| N/A | | |
| **Variable Name for (Transaction)** | **Type** | **Description** |
| orgID | String | org ID |
| headerID | String | OrderID |
| reservationStatus | Integer | Reservation Status |
| warehouseOrgID | String | Warehouse Org ID |
| | | |
| **Variable Name for (Transaction Line)** | **Type** | **Description** |
| _document_number | String | Document Number |
| _part_number | String | Part Number |
| requestedQuantity_l | Integer | Quantity |
| requirementDate_l | String(date) | Requirement Date |
| status_l | String | Status |
| reservationStatus_l | String | Reservation Status |
| | | |
| lineID | String | lineID |
| reservationId_l | Integer | Reservation Id |
| reservedQuantity_l | Integer | Reserved Quantity |
| | | |
| **Imported Commerce Functions** | | |
| String **getDataSecurity**(String system, String operation, String headerFile)<br>String **clearCache**()<br>String **getTemplate**(String system, String operation)<br>String **getTemplateLocation**(String system, String operation)<br>String **invokeWebService**(String system, String soapReq) | | |

*__IMPORTANT__: The Reserve action BML is located in [Appendix:H](). Action should be defined for the Advanced modify – After formula section.*

**Relieve**

To relieve all the line item(s) for the Canceled Order, "Relieve" action is implemented which is stated below:

| System Variable Name | Type | Description |
|---|---|---|
| N/A | | |
| **Variable Name for (Transaction)** | **Type** | **Description** |
| orgID | String | org ID |
| reservationStatus | Integer | Reservation Status |
| headerID | String | Order ID |
| | | |
| **Variable Name for (Transaction Line)** | **Type** | **Description** |
| _document_number | String | Document Number |
| _part_number | String | Part Number |
| status_l | String | Status |
| lineID | String | lineID |
| requirementDate_l | String(date) | Requirement Date |
| reservationId_l | Integer | Reservation Id |
| reservationStatus_l | String | Reservation Status |
| reservedQuantity_l | Integer | Reserved Quantity |
| **Imported Commerce Functions** | | |
| String getDataSecurity(String system, String operation, String headerFile)<br>String clearCache()<br>String getTemplate(String system, String operation)<br>String getTemplateLocation(String system, String operation)<br>String invokeWebService(String system, String soapReq) | | |

*IMPORTANT: The BML for the Relieve action is located in Appendix I. Action should be defined for Advanced modify - After formula section.*

**Transaction Line Action**

**Relieve Line**

To relieve the reserved quantity for a single canceled line, "Relieve Line" action is implemented which is stated below:

| System Variable Name | | Type | Description |
|---|---|---|---|
| N/A | | | |
| **Variable Name for (Transaction)** | | **Type** | **Description** |
| orgID | | String | org ID |
| headerID | | String | Order ID |
| warehouseOrgID | | String | Warehouse Org ID |
| | | | |
| **Variable Name for (Transaction Line)** | **Type** | | **Description** |
| _document_number | String | | Document Number |
| _part_number | String | | Part Number |
| status_l | String | | Status |
| lineID | String | | lineID |
| requirementDate_l | String(date) | | Requirement Date |
| reservationId_l | Integer | | Reservation Id |
| reservationStatus_l | String | | Reservation Status |
| reservedQuantity_l | Integer | | Reserved Quantity |
| | | | |
| **Imported Commerce Functions** | | | |
| String getDataSecurity(String system, String operation, String headerFile) String getTemplate(String system, String operation) String getTemplateLocation(String system, String operation) String invokeWebService(String system, String soapReq) | | | |

*IMPORTANT: The BML for the Relieve Line action is located in [Appendix J]. Action should be defined for Advanced modify- After formula section.*

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## Validation

### Transaction Rules

1. Validation for Relieve Order is done which restricts the canceled order to be relieved, if not reserved.



### Transaction Line Rules

1. Validation for Relieve Line is done which restricts the cancel line to be relieved, if not reserved.



2. Validation for Relieve Line is done which restricts the line to be relieved, if not canceled.

**Validation: ValidateStatusRelieveLine**

| | |
|---|---|
| **Name:** | ValidateStatusRelieveLine |
| **Variable Name:** | validateStatusRelieveLine |
| **Status:** | ● Active    ○ Inactive |
| **Available Actions:** | Relieve Line ▾ |

**Description:**

**Condition**

**Condition Type:**  ○ AlwaysTrue   ● Simple   ○ Advanced

| | # | Attribute | Operator | Value |
|---|---|---|---|---|
| ✖ | 1 | Status | Equals | OR Created [CREATED] OR Quote... |

➕ Add Row

**Row Grouping (Order of Operations):**

1

**◢ Condition Summary**

(Status Equals "" OR "Created [CREATED]" OR "Quoted [QUOTED]" OR "Invoiced [INVOICED]" OR "Awaiting Billing [AWAIT_BILLING]" OR "Billed [BILLED]" OR "Ordered [ORDERED]" OR "Scheduled [SCHEDULED]" OR "Picked [PICKED]" OR "Manufactured [MANUFACTURED]" OR "Awaiting Shipment [AWAIT_SHIP]" OR "Shipped [SHIPPED]" OR "Delivered [DELIVERED]" OR "Activated [ACTIVATED]")

[ AND All ] [ OR All ] [ ✎ Convert to Advanced Con... ]

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

➕ Add

| | Attribute | Operator | Value | Message | Message Location |
|---|---|---|---|---|---|
| ✖ | *Status* | Constrain | OR Created [CREATED] OR Q... | Relieve Line is not allowed unless status is canceled. | Top |

## Step Transitions

The "Reserve" action button will be visible only in the Ordered Step. "Relieve" action button is available in the Canceled Step. "Relieve Line" action button will be visible in the Ordered Step and Canceled Step.

| Action Variable Name | Available Step | Comments |
|---|---|---|
| Reserve | Ordered | "Reserve" action button will be visible only in the Ordered Step. |
| Relieve | Canceled Step | "Relieve" action button is available in the Canceled Step. |
| Relieve Line | Ordered, Canceled Step | "Relieve Line" action button will be visible in the Ordered Step and Canceled Step. |

## Sample Payloads

- Refer to Appendix K: Sample Reserve Action Payload – Create a New Reservation

- Refer to Appendix L: Sample Reserve Action Payload – Update an Existing Reservation

- Refer to Appendix M: Sample Relieve Action Payload

- Refer to Appendix N: Sample Relieve Line Action Payload

## Appendix A: <u>Create Reservation Template</u>

```
<soapenv:Envelope

xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"

xmlns:inv="http://xmlns.oracle.com/apps/inv/soaprovider/plsql/inv_reservation_pub/"

xmlns:cre="http://xmlns.oracle.com/apps/inv/soaprovider/plsql/inv_reservation_pub/c
reate_reservation/">

<soapenv:Header>

        <inv:SOAHeader>


<inv:RESPONSIBILITY_NAME>{{Responsibility_Name}}</inv:RESPONSIBILITY_NAME>

<inv:RESPONSIBILITY_APPL_NAME>{{Application_Name}}</inv:RESPONSIBILITY_APPL_NAME>

<inv:SECURITY_GROUP_NAME>{{Security_Group_Name}}</inv:SECURITY_GROUP_NAME>

<inv:NLS_LANGUAGE>{{Language}}</inv:NLS_LANGUAGE>

            <inv:ORG_ID>{{Org_Id}}</inv:ORG_ID>

        </inv:SOAHeader>

        <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>

        {{ReservationLine}}

    </soapenv:Body>

</soapenv:Envelope>
```

## Appendix B: Create Reservation Line Template

```
{{#each TransactionLine}}

<cre:InputParameters>

      <cre:P_API_VERSION_NUMBER>1</cre:P_API_VERSION_NUMBER>

      <cre:P_INIT_MSG_LST>T</cre:P_INIT_MSG_LST>

        <cre:P_ACTION_COMMIT>T</cre:P_ACTION_COMMIT>

            <cre:P_RSV_REC>

                  <cre:REQUIREMENT_DATE>{{formatDateString requirementDate_l
"dd/MM/yyyy HH:mm:ss" "dd-MM-yyyy"}}</cre:REQUIREMENT_DATE>

                  <cre:ORGANIZATION_ID>{{warehouseOrgID}}</cre:ORGANIZATION_ID>

                  <cre:INVENTORY_ITEM_ID>{{_part_number}}</cre:INVENTORY_ITEM_ID>

                  <cre:DEMAND_SOURCE_TYPE_ID>2</cre:DEMAND_SOURCE_TYPE_ID>


      <cre:DEMAND_SOURCE_HEADER_ID>{{headerID}}</cre:DEMAND_SOURCE_HEADER_ID>

                  <cre:DEMAND_SOURCE_LINE_ID>{{lineID}}</cre:DEMAND_SOURCE_LINE_ID>


      <cre:RESERVATION_QUANTITY>$REQUESTEDQUANTITY$</cre:RESERVATION_QUANTITY>


      <cre:PRIMARY_RESERVATION_QUANTITY>$REQUESTEDQUANTITY$</cre:PRIMARY_RESERVATIO
N_QUANTITY>

                  <cre:SUPPLY_SOURCE_TYPE_ID>13</cre:SUPPLY_SOURCE_TYPE_ID>

              </cre:P_RSV_REC>

      <cre:P_SERIAL_NUMBER>

      </cre:P_SERIAL_NUMBER>

</cre:InputParameters>

{{/each}}
```

## Appendix C: Relieve Reservation Template

```xml
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inv="http://xmlns.oracle.com/apps/inv/soaprovider/plsql/inv_reservation_pub/"
xmlns:rel="http://xmlns.oracle.com/apps/inv/soaprovider/plsql/inv_reservation_pub/r
elieve_reservation__1/">

    <soapenv:Header>

        <inv:SOAHeader>

            <inv:RESPONSIBILITY_NAME>{{Responsibility_Name}}</inv:RESPONSIBILITY_NAME>


<inv:RESPONSIBILITY_APPL_NAME>{{Application_Name}}</inv:RESPONSIBILITY_APPL_NAME>

            <inv:SECURITY_GROUP_NAME>{{Security_Group_Name}}</inv:SECURITY_GROUP_NAME>

            <inv:NLS_LANGUAGE>{{Language}}</inv:NLS_LANGUAGE>

            <inv:ORG_ID>{{Org_Id}}</inv:ORG_ID>

        </inv:SOAHeader>

        <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>

                <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>{{RelieveLine}}</soapenv:Body>

</soapenv:Envelope>
```

## Appendix D: Relieve Reservation Line Template

```
{{#each TransactionLine}}

<rel:InputParameters>

        <rel:P_API_VERSION_NUMBER>1</rel:P_API_VERSION_NUMBER>

        <rel:P_INIT_MSG_LST>T</rel:P_INIT_MSG_LST>

        <rel:P_RSV_REC>

            <rel:RESERVATION_ID>{{reservationId_l}}</rel:RESERVATION_ID>

            <rel:REQUIREMENT_DATE>{{formatDateString requirementDate_l "dd/MM/yyyy HH:mm:ss"
"dd-MM-yyyy"}}</rel:REQUIREMENT_DATE>

            <rel:ORGANIZATION_ID>{{warehouseOrgID}}</rel:ORGANIZATION_ID>

            <rel:INVENTORY_ITEM_ID>{{_part_number}}</rel:INVENTORY_ITEM_ID>

            <rel:DEMAND_SOURCE_TYPE_ID>2</rel:DEMAND_SOURCE_TYPE_ID>

            <rel:DEMAND_SOURCE_HEADER_ID>{{headerID}}</rel:DEMAND_SOURCE_HEADER_ID>

            <rel:DEMAND_SOURCE_LINE_ID>{{lineID}}</rel:DEMAND_SOURCE_LINE_ID>

            <rel:RESERVATION_QUANTITY>{{reservedQuantity_l}}</rel:RESERVATION_QUANTITY>

<rel:PRIMARY_RESERVATION_QUANTITY>{{reservedQuantity_l}}</rel:PRIMARY_RESERVATION_QUANTITY>

        </rel:P_RSV_REC>

<rel:P_PRIMARY_RELIEVED_QUANTITY>{{reservedQuantity_l}}</rel:P_PRIMARY_RELIEVED_QUANTITY>

        <rel:P_SECONDARY_RELIEVED_QUANTITY/>

        <rel:P_RELIEVE_ALL/>

        <rel:P_ORIGINAL_SERIAL_NUMBER/>

    </rel:InputParameters>

{{/each}}
```

## Appendix E: Line Relieve Reservation Template

```xml
<rel:InputParameters>
        <rel:P_API_VERSION_NUMBER>1</rel:P_API_VERSION_NUMBER>
        <rel:P_INIT_MSG_LST>T</rel:P_INIT_MSG_LST>
        <rel:P_RSV_REC>
            <rel:RESERVATION_ID>{{reservationId_l}}</rel:RESERVATION_ID>
            <rel:REQUIREMENT_DATE>{{formatDateString requirementDate_l "dd/MM/yyyy
HH:mm:ss" "dd-MM-yyyy"}}</rel:REQUIREMENT_DATE>
            <rel:ORGANIZATION_ID>{{warehouseOrgID}}</rel:ORGANIZATION_ID>
            <rel:INVENTORY_ITEM_ID>{{_part_number}}</rel:INVENTORY_ITEM_ID>
            <rel:DEMAND_SOURCE_TYPE_ID>2</rel:DEMAND_SOURCE_TYPE_ID>
            <rel:DEMAND_SOURCE_HEADER_ID>{{headerID}}</rel:DEMAND_SOURCE_HEADER_ID>
            <rel:DEMAND_SOURCE_LINE_ID>{{lineID}}</rel:DEMAND_SOURCE_LINE_ID>

<rel:RESERVATION_QUANTITY>{{reservedQuantity_l}}</rel:RESERVATION_QUANTITY>

<rel:PRIMARY_RESERVATION_QUANTITY>{{reservedQuantity_l}}</rel:PRIMARY_RESERVATION_Q
UANTITY>
        </rel:P_RSV_REC>

<rel:P_PRIMARY_RELIEVED_QUANTITY>{{reservedQuantity_l}}</rel:P_PRIMARY_RELIEVED_QUA
NTITY>
        <rel:P_SECONDARY_RELIEVED_QUANTITY/>
        <rel:P_RELIEVE_ALL/>
        <rel:P_ORIGINAL_SERIAL_NUMBER/>
    </rel:InputParameters>
```

## Appendix F: Update Reservation Template

```xml
<soapenv:Envelope

xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"

xmlns:inv="http://xmlns.oracle.com/apps/inv/soaprovider/plsql/inv_reservation_pub/"

xmlns:cre="http://xmlns.oracle.com/apps/inv/soaprovider/plsql/inv_reservation_pub/update_reservation/">

<soapenv:Header>

        <inv:SOAHeader>


<inv:RESPONSIBILITY_NAME>{{Responsibility_Name}}</inv:RESPONSIBILITY_NAME>

<inv:RESPONSIBILITY_APPL_NAME>{{Application_Name}}</inv:RESPONSIBILITY_APPL_NAME>

<inv:SECURITY_GROUP_NAME>{{Security_Group_Name}}</inv:SECURITY_GROUP_NAME>

<inv:NLS_LANGUAGE>{{Language}}</inv:NLS_LANGUAGE>

            <inv:ORG_ID>{{Org_Id}}</inv:ORG_ID>

        </inv:SOAHeader>

        <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>

        {{ReservationLine}}

    </soapenv:Body>

</soapenv:Envelope>
```

## Appendix G: Update Reservation Line Template

```
<cre:InputParameters>

    <cre:P_API_VERSION_NUMBER>1</cre:P_API_VERSION_NUMBER>

    <cre:P_INIT_MSG_LST>T</cre:P_INIT_MSG_LST>

      <cre:P_ACTION_COMMIT>T</cre:P_ACTION_COMMIT>

        <cre:P_RSV_REC>

            <cre:RESERVATION_ID>$reservationId_l$</cre:RESERVATION_ID>

          <cre:REQUIREMENT_DATE>$requirementDate_l$</cre:REQUIREMENT_DATE>

          <cre:ORGANIZATION_ID>$warehouseOrgID$</cre:ORGANIZATION_ID>

          <cre:INVENTORY_ITEM_ID>$_part_number$</cre:INVENTORY_ITEM_ID>

          <cre:DEMAND_SOURCE_TYPE_ID>2</cre:DEMAND_SOURCE_TYPE_ID>


    <cre:DEMAND_SOURCE_HEADER_ID>$headerID$</cre:DEMAND_SOURCE_HEADER_ID>

            <cre:DEMAND_SOURCE_LINE_ID>$lineID$</cre:DEMAND_SOURCE_LINE_ID>


    <cre:RESERVATION_QUANTITY>$REQUESTEDQUANTITY$</cre:RESERVATION_QUANTITY>


    <cre:PRIMARY_RESERVATION_QUANTITY>$REQUESTEDQUANTITY$</cre:PRIMARY_RESERVATIO
N_QUANTITY>

            <cre:SUPPLY_SOURCE_TYPE_ID>13</cre:SUPPLY_SOURCE_TYPE_ID>

        </cre:P_RSV_REC>

    <cre:P_SERIAL_NUMBER>

    </cre:P_SERIAL_NUMBER>

</cre:InputParameters>
```

## Appendix H: Reserve Action BML

```
count = 0;

reservedCount = 0;

invokeWebservice = false;

//1. Get the Header file

headerFile = commerce.getTemplate("MATERIAL RESERVATION", "Reserve");

headerFile = commerce.getDataSecurity("MATERIAL RESERVATION", "Reserve",
headerFile);


//2. Get the Line file Information and apply template

payload = dict("string");

defaultErrorMessage = "";

LineFileLocation = commerce.getTemplateLocation("MATERIAL RESERVATION",
"ReserveLine");

LineFile=applytemplate(LineFileLocation,payload,defaultErrorMessage);

strArray = split(LineFile, "</cre:InputParameters>");

soapResponse="";

soapRequest="";

lineReturn ="";

//3. Iterate the loop and call the webservice for each Inventory

for line in transactionLine {

if(line.status_l <> "CANCELED"){

currentLine = strArray[count];

currentLine=currentLine+"</cre:InputParameters>";

headerFile_current = headerFile;

if(line.reservationId_l > 0){ // If true, this line is already reserved

if(line.reservedQuantity_l <> line.requestedQuantity_l)

{ // If true, update Reservation flow is initiated.

requirementDatestr= "";

      if(line.requirementDate_l<> ""){

            requirementDate1 = strtodate(line.requirementDate_l, "%m/%d/%y
%H:%M:%S", "UTC");

            requirementDatestr = datetostr(requirementDate1 , "yyyy-MM-dd", "UTC");

      }
```

```
headerFile = commerce.getTemplate("MATERIAL RESERVATION", "UpdateReserve");

headerFile = commerce.getDataSecurity("MATERIAL RESERVATION", "Reserve",
headerFile);

UpdateLineFile = commerce.getTemplate("MATERIAL RESERVATION", "UpdateReserveLine");

UpdateLineFile =
replace(UpdateLineFile,"$REQUESTEDQUANTITY$",string(line.requestedQuantity_l));

UpdateLineFile =
replace(UpdateLineFile,"$reservationId_l$",string(line.reservationId_l));

UpdateLineFile = replace(UpdateLineFile,"$requirementDate_l$",requirementDatestr);

UpdateLineFile = replace(UpdateLineFile,"$warehouseOrgID$",warehouseOrgID);

UpdateLineFile = replace(UpdateLineFile,"$_part_number$",line._part_number);

UpdateLineFile = replace(UpdateLineFile,"$headerID$",headerID);

UpdateLineFile = replace(UpdateLineFile,"$lineID$",line.lineID);

invokeWebservice = false;

update_headerFile = replace(headerFile ,"{{ReservationLine}}",UpdateLineFile);

soapResponse=commerce.invokeWebService("MATERIAL RESERVATION", update_headerFile);


//Extracting

start=find (soapResponse, "<X_RETURN_STATUS>");

print(" Arpita:: start "+string(start));

end = find (soapResponse, "</X_RETURN_STATUS>");

print(" Arpita:: end "+ string(end));

updateStatus= substring(soapResponse, start+17, end);

print(" Arpita:: updateStatus "+updateStatus);

soapRequest=soapRequest+update_headerFile;


if(updateStatus=="S"){

lineReturn = lineReturn
+"|"+line._document_number+"~reservedQuantity_l~"+string(line.requestedQuantity_l)+
"|"+line._document_number+ "~reservationStatus_l~Reserved|";

reservedCount = reservedCount +1;

}

else

{
```

```
lineReturn = lineReturn
+"|"+line._document_number+"~reservedDate_l~"+line.requirementDate_l+"|"+

line._document_number+ "~reservationStatus_l~Error in Update Reservation|";

}


// End of Extracting

}

}

else

{

currentLine =
replace(currentLine,"$REQUESTEDQUANTITY$",string(line.requestedQuantity_l));

headerFile_current = replace(headerFile_current,"{{ReservationLine}}",currentLine);

invokeWebservice = true;

}

// Invoke Web Service

if (invokeWebservice == true){

soapResponse=commerce.invokeWebService("MATERIAL RESERVATION", headerFile_current);

// Extracting

start=find (soapResponse, "<X_RESERVATION_ID>");

end = find (soapResponse, "</X_RESERVATION_ID>");

reservation_id = substring(soapResponse, start+18, end);

soapRequest=soapRequest+headerFile_current;


if(isnumber(reservation_id)){

lineReturn = lineReturn +"|"+line._document_number+
"~reservationId_l~"+reservation_id+"|"+

line._document_number+"~reservedQuantity_l~"+string(line.requestedQuantity_l)+"|"+l
ine._document_number+ "~reservationStatus_l~Reserved|";

reservedCount = reservedCount +1;

}

else

{

lineReturn = lineReturn +"|"+line._document_number+
"~reservationId_l~"+"0"+"|"+line._document_number+"~reservedDate_l~"+line.requireme
ntDate_l+"|"+
```

```
line._document_number+ "~reservationStatus_l~Error|";

}}}// end of canceled line

elif(line.status_l == "CANCELED" AND line.reservationStatus_l == ""){

lineReturn = lineReturn+"|"+line._document_number+"~reservationStatus_l~Cancelled
Line cannot be Reserved|";

}

count= count+1;

}

if (reservationStatus == 0){

lineReturn=lineReturn+"1~reservationStatus~"+string(reservedCount);

}


//clears the cache for the organisation Id

clearCacheResponse = commerce.clearCache();


return lineReturn+"|1~soapResponse~"+soapResponse+"|1~soapRequest~"+soapRequest;
```

## Appendix I: Relieve Action BML

```
count = 0;
//1. Get the Header file
headerFile = commerce.getTemplate("MATERIAL RESERVATION", "Relieve");
headerFile = commerce.getDataSecurity("MATERIAL RESERVATION", "Relieve", headerFile);


//2. Get the Line file Information and apply template
payload = dict("string");
defaultErrorMessage = "";
LineFileLocation = commerce.getTemplateLocation("MATERIAL RESERVATION", "RelieveLine");
LineFile=applytemplate(LineFileLocation,payload,defaultErrorMessage);
//print LineFile;
strArray = split(LineFile, "</rel:InputParameters>");


lineReturn ="";
//3. Iterate the loop and call the webservice for each Inventory
if(reservationStatus > 0){
for line in transactionLine {
if(line.reservationStatus_l <> "Relieved"){
currentLine = strArray[count];
currentLine=currentLine+"</rel:InputParameters>";
headerFile_current = headerFile;
headerFile_current = replace(headerFile_current,"{{RelieveLine}}",currentLine);
//4. Invoke Web Service
soapResponse=commerce.invokeWebService("MATERIAL RESERVATION", headerFile_current);


//5. Extracting
start=find (soapResponse, "<X_RETURN_STATUS>");
end = find (soapResponse, "</X_RETURN_STATUS>");
reservation_status = substring(soapResponse, start+17, end);
print ("reservation_status :: " + reservation_status );
//count1= count+2;
if(reservation_status == "S"){
lineReturn = lineReturn +""+line._document_number+ "~reservationStatus_l~Relieved|";
}else
{
lineReturn = lineReturn +""+line._document_number+ "~reservationStatus_l~Error|";
}
}
count = count +1;
```

```
}
}
//print (" lineReturn :: " + lineReturn);


//clears the cache for the organisation Id
clearCacheResponse = commerce.clearCache();


return lineReturn;
```

## Appendix J: Relieve Line Action BML

```
count = 0;
//1. Get the Header file
headerFile = commerce.getTemplate("MATERIAL RESERVATION", "Relieve");
headerFile = commerce.getDataSecurity("MATERIAL RESERVATION", "RelieveLine", headerFile);
//print headerFile;


//2. Get the Line file Information and apply template
payload = dict("string");
defaultErrorMessage = "";
LineFileLocation = commerce.getTemplateLocation("MATERIAL RESERVATION", "LineRelieve");
LineFile=applytemplate(LineFileLocation,payload,defaultErrorMessage);


lineReturn ="";


headerFile  = replace(headerFile ,"{{RelieveLine}}",LineFile);


//4. Invoke Web Service
// Check for status = Canceled and Reservation Status = Reserved
if(status_l == "CANCELED" AND reservationId_l > 0 AND reservationStatus_l == "Reserved"){
soapResponse=commerce.invokeWebService("MATERIAL RESERVATION", headerFile);


//5. Extracting
start=find (soapResponse, "<X_RETURN_STATUS>");
end = find (soapResponse, "</X_RETURN_STATUS>");
reservation_status = substring(soapResponse, start+17, end);
//print ("reservation_id :: " + reservation_id );
if(reservation_status == "S"){
lineReturn = _document_number+ "~reservationStatus_l~Relieved|";
}else
{
lineReturn = _document_number+ "~reservationStatus_l~Error|";
}
}


return lineReturn;
```

## Appendix K:  Sample Reserve Action Payload – Create a New Reservation

```
<soapenv:Envelope

xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"

xmlns:inv="http://xmlns.oracle.com/apps/inv/soaprovider/plsql/inv_reservation_pub/"

xmlns:cre="http://xmlns.oracle.com/apps/inv/soaprovider/plsql/inv_reservation_pub/c
reate_reservation/">

<soapenv:Header>

        <inv:SOAHeader>

            <inv:RESPONSIBILITY_NAME>System Administrator</inv:RESPONSIBILITY_NAME>

<inv:RESPONSIBILITY_APPL_NAME>SYSADMIN</inv:RESPONSIBILITY_APPL_NAME>

<inv:SECURITY_GROUP_NAME>STANDARD</inv:SECURITY_GROUP_NAME>

<inv:NLS_LANGUAGE>AMERICAN</inv:NLS_LANGUAGE>

            <inv:ORG_ID>204</inv:ORG_ID>

        </inv:SOAHeader>

        <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>

      <cre:InputParameters>

        <cre:P_API_VERSION_NUMBER>1</cre:P_API_VERSION_NUMBER>

        <cre:P_INIT_MSG_LST>T</cre:P_INIT_MSG_LST>

          <cre:P_ACTION_COMMIT>T</cre:P_ACTION_COMMIT>

            <cre:P_RSV_REC>

                <cre:REQUIREMENT_DATE>02-09-2015</cre:REQUIREMENT_DATE>
```

```xml
                    <cre:ORGANIZATION_ID>207</cre:ORGANIZATION_ID>
                    <cre:INVENTORY_ITEM_ID>141</cre:INVENTORY_ITEM_ID>
                    <cre:DEMAND_SOURCE_TYPE_ID>2</cre:DEMAND_SOURCE_TYPE_ID>
                    <cre:DEMAND_SOURCE_HEADER_ID>360780</cre:DEMAND_SOURCE_HEADER_ID>
                    <cre:DEMAND_SOURCE_LINE_ID>674234</cre:DEMAND_SOURCE_LINE_ID>
                    <cre:RESERVATION_QUANTITY>1</cre:RESERVATION_QUANTITY>

        <cre:PRIMARY_RESERVATION_QUANTITY>1</cre:PRIMARY_RESERVATION_QUANTITY>
                    <cre:SUPPLY_SOURCE_TYPE_ID>13</cre:SUPPLY_SOURCE_TYPE_ID>
                </cre:P_RSV_REC>
        <cre:P_SERIAL_NUMBER>
        </cre:P_SERIAL_NUMBER></cre:InputParameters>
    </soapenv:Body>
</soapenv:Envelope>
```

## Appendix L: Sample Reserve Action Payload – Update an Existing Reservation

```
<soapenv:Envelope

xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"

xmlns:inv="http://xmlns.oracle.com/apps/inv/soaprovider/plsql/inv_reservation_pub/"

xmlns:cre="http://xmlns.oracle.com/apps/inv/soaprovider/plsql/inv_reservation_pub/u
pdate_reservation/">

<soapenv:Header>

        <inv:SOAHeader>

            <inv:RESPONSIBILITY_NAME>System Administrator</inv:RESPONSIBILITY_NAME>

<inv:RESPONSIBILITY_APPL_NAME>SYSADMIN</inv:RESPONSIBILITY_APPL_NAME>

<inv:SECURITY_GROUP_NAME>STANDARD</inv:SECURITY_GROUP_NAME>

<inv:NLS_LANGUAGE>AMERICAN</inv:NLS_LANGUAGE>

            <inv:ORG_ID>204</inv:ORG_ID>

        </inv:SOAHeader>

        <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>

        <cre:InputParameters>

        <cre:P_API_VERSION_NUMBER>1</cre:P_API_VERSION_NUMBER>

        <cre:P_INIT_MSG_LST>T</cre:P_INIT_MSG_LST>
```

```xml
        <cre:P_ACTION_COMMIT>T</cre:P_ACTION_COMMIT>

        <cre:P_ORIGINAL_RSV_REC>

        <cre:RESERVATION_ID>6755871</cre:RESERVATION_ID>v

    </cre:P_ORIGINAL_RSV_REC>

      <cre:P_TO_RSV_REC>

            <cre:RESERVATION_ID>6755871</cre:RESERVATION_ID>

         <cre:REQUIREMENT_DATE>2015-02-09</cre:REQUIREMENT_DATE>

         <cre:ORGANIZATION_ID>207</cre:ORGANIZATION_ID>

         <cre:INVENTORY_ITEM_ID>141</cre:INVENTORY_ITEM_ID>

         <cre:DEMAND_SOURCE_TYPE_ID>2</cre:DEMAND_SOURCE_TYPE_ID>

         <cre:DEMAND_SOURCE_HEADER_ID>360780</cre:DEMAND_SOURCE_HEADER_ID>

         <cre:DEMAND_SOURCE_LINE_ID>674234</cre:DEMAND_SOURCE_LINE_ID>

         <cre:RESERVATION_QUANTITY>3</cre:RESERVATION_QUANTITY>

    <cre:PRIMARY_RESERVATION_QUANTITY>3</cre:PRIMARY_RESERVATION_QUANTITY>

            <cre:SUPPLY_SOURCE_TYPE_ID>13</cre:SUPPLY_SOURCE_TYPE_ID>

        </cre:P_TO_RSV_REC>

      <cre:P_ORIGINAL_SERIAL_NUMBER></cre:P_ORIGINAL_SERIAL_NUMBER>

      <cre:P_TO_SERIAL_NUMBER></cre:P_TO_SERIAL_NUMBER>

      <cre:P_VALIDATION_FLAG></cre:P_VALIDATION_FLAG>

</cre:InputParameters>


    </soapenv:Body>

</soapenv:Envelope>
```

## Appendix M: <u>Sample Relieve Action Payload</u>

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inv="http://xmlns.oracle.com/apps/inv/soaprovider/plsql/inv_reservation_pub/"
xmlns:rel="http://xmlns.oracle.com/apps/inv/soaprovider/plsql/inv_reservation_pub/r
elieve_reservation__1/">
    <soapenv:Header>
        <inv:SOAHeader>
            <inv:RESPONSIBILITY_NAME>{{Responsibility_Name}}</inv:RESPONSIBILITY_NAME>

<inv:RESPONSIBILITY_APPL_NAME>{{Application_Name}}</inv:RESPONSIBILITY_APPL_NAME>
            <inv:SECURITY_GROUP_NAME>{{Security_Group_Name}}</inv:SECURITY_GROUP_NAME>
            <inv:NLS_LANGUAGE>{{Language}}</inv:NLS_LANGUAGE>
            <inv:ORG_ID>{{Org_Id}}</inv:ORG_ID>
        </inv:SOAHeader>
        <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>
                <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><rel:InputParameters>
        <rel:P_API_VERSION_NUMBER>1</rel:P_API_VERSION_NUMBER>
        <rel:P_INIT_MSG_LST>T</rel:P_INIT_MSG_LST>
        <rel:P_RSV_REC>
            <rel:RESERVATION_ID>6755871</rel:RESERVATION_ID>
            <rel:REQUIREMENT_DATE>02-09-2015</rel:REQUIREMENT_DATE>
            <rel:ORGANIZATION_ID>207</rel:ORGANIZATION_ID>
            <rel:INVENTORY_ITEM_ID>141</rel:INVENTORY_ITEM_ID>
            <rel:DEMAND_SOURCE_TYPE_ID>2</rel:DEMAND_SOURCE_TYPE_ID>
            <rel:DEMAND_SOURCE_HEADER_ID>360780</rel:DEMAND_SOURCE_HEADER_ID>
            <rel:DEMAND_SOURCE_LINE_ID>674234</rel:DEMAND_SOURCE_LINE_ID>
            <rel:RESERVATION_QUANTITY>3</rel:RESERVATION_QUANTITY>
            <rel:PRIMARY_RESERVATION_QUANTITY>3</rel:PRIMARY_RESERVATION_QUANTITY>
```

```
            </rel:P_RSV_REC>

            <rel:P_PRIMARY_RELIEVED_QUANTITY>3</rel:P_PRIMARY_RELIEVED_QUANTITY>

            <rel:P_SECONDARY_RELIEVED_QUANTITY/>

            <rel:P_RELIEVE_ALL/>

            <rel:P_ORIGINAL_SERIAL_NUMBER/>

      </rel:InputParameters></soapenv:Body>

</soapenv:Envelope>
```

## Appendix N:  Sample Relieve Line Action Payload

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inv="http://xmlns.oracle.com/apps/inv/soaprovider/plsql/inv_reservation_pub/"
xmlns:rel="http://xmlns.oracle.com/apps/inv/soaprovider/plsql/inv_reservation_pub/r
elieve_reservation__1/">
   <soapenv:Header>
      <inv:SOAHeader>
         <inv:RESPONSIBILITY_NAME>{{Responsibility_Name}}</inv:RESPONSIBILITY_NAME>

<inv:RESPONSIBILITY_APPL_NAME>{{Application_Name}}</inv:RESPONSIBILITY_APPL_NAME>
         <inv:SECURITY_GROUP_NAME>{{Security_Group_Name}}</inv:SECURITY_GROUP_NAME>
         <inv:NLS_LANGUAGE>{{Language}}</inv:NLS_LANGUAGE>
         <inv:ORG_ID>{{Org_Id}}</inv:ORG_ID>
      </inv:SOAHeader>
      <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>
            <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><rel:InputParameters>
         <rel:P_API_VERSION_NUMBER>1</rel:P_API_VERSION_NUMBER>
         <rel:P_INIT_MSG_LST>T</rel:P_INIT_MSG_LST>
         <rel:P_RSV_REC>
            <rel:RESERVATION_ID>6755871</rel:RESERVATION_ID>
            <rel:REQUIREMENT_DATE>02-09-2015</rel:REQUIREMENT_DATE>
            <rel:ORGANIZATION_ID>207</rel:ORGANIZATION_ID>
            <rel:INVENTORY_ITEM_ID>141</rel:INVENTORY_ITEM_ID>
            <rel:DEMAND_SOURCE_TYPE_ID>2</rel:DEMAND_SOURCE_TYPE_ID>
            <rel:DEMAND_SOURCE_HEADER_ID>360780</rel:DEMAND_SOURCE_HEADER_ID>
            <rel:DEMAND_SOURCE_LINE_ID>674234</rel:DEMAND_SOURCE_LINE_ID>
            <rel:RESERVATION_QUANTITY>3</rel:RESERVATION_QUANTITY>
            <rel:PRIMARY_RESERVATION_QUANTITY>3</rel:PRIMARY_RESERVATION_QUANTITY>
```

```
                </rel:P_RSV_REC>

                <rel:P_PRIMARY_RELIEVED_QUANTITY>3</rel:P_PRIMARY_RELIEVED_QUANTITY>

                <rel:P_SECONDARY_RELIEVED_QUANTITY/>

                <rel:P_RELIEVE_ALL/>

                <rel:P_ORIGINAL_SERIAL_NUMBER/>

        </rel:InputParameters></soapenv:Body>

</soapenv:Envelope>
```

Integrated Cloud Applications & Platform Services