

Siebel Oracle Commerce Implementation Guide

Asset Based Ordering Integration

ORACLE®

Implementation Guide for the Integration of Siebel with Oracle Commerce Asset Based Ordering

Copyright © 2012, 2016, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Table of Contents

Table of Contents	3
Introduction	4
References	5
Software Dependencies	6
Technical Requirements Summary	7
Asset Based Ordering Requirements	7
Asset Based Ordering (ABO) overview	8
Modify Asset	9
Architectural Diagram	9
Modify Asset Process Overview	10
Web service calls	10
Upgrade Promotion	18
Architectural Diagram	18
Upgrade Promotion Process Overview	19
Web service calls	20
Components and Classes	30
ModifyAssetFormHandler	30
ModifyAssetFormHandler Component	30
ModifyAssetFormHandler Class	30
SiebelAssetManager	34
SiebelAssetManager Component	34
SiebelAssetManager Class	34
SiebelAssetTools	39
SiebelAssetTools Component	39
SiebelAssetTools Class	39
SiebelOrderTools Extensions	42
SiebelOrderTools Class Extensions	42

Introduction

This Implementation Guide (IG) is provided as documentation for the Asset Based Ordering Reference Implementation (RI). The RI enables Oracle Commerce to perform the following functionalities on Assets.

- Modify Asset
- Upgrade Promotion

This version of the document provides the necessary Oracle Commerce functionality to perform these functionalities

References

- [1] Siebel Oracle Commerce Implementation Guide – Product Configurator Integration v2.0.
- [2] Siebel Oracle Commerce Implementation Guide – Order Integration v1.0
- [3] Oracle Oracle Commerce Programming Guide Version 11.2
- [4] Oracle Oracle Commerce Platform Programming Guide Version 11.2
- [5] Oracle Oracle Commerce Repository Guide Version 11.2
- [6] Siebel Order Management Guide Siebel Innovation Pack 2015 May 2015

Software Dependencies

This guide is based on the following software and respective versions:

- Oracle Siebel Version 15.6.0.0
- Oracle Commerce Version 11.2

This chapter gives a brief overview of the high level requirements for Oracle commerce Asset Based Ordering with Siebel

Asset Based Ordering Requirements

- The user must be logged into the reference Integration and must have valid existing assets.
- For ABO we would be re-using the configuration functionalities which are already implemented during product configuration.
- The ABO functionalities include modify asset, disconnect for all the assets and upgrade promotion for promotion asset.

Asset Based Ordering (ABO) overview

An asset is a serialized product or service that a customer has purchased from the company. When a customer places the order and after the order flow is completed, the item becomes an asset with a unique serial number called asset number.

Asset Based ordering allows the users to perform the following actions

- The users can view the assets assigned to him
- The user can modify any of their existing assets.
- The user can upgrade any of their promotion assets to other promotions.

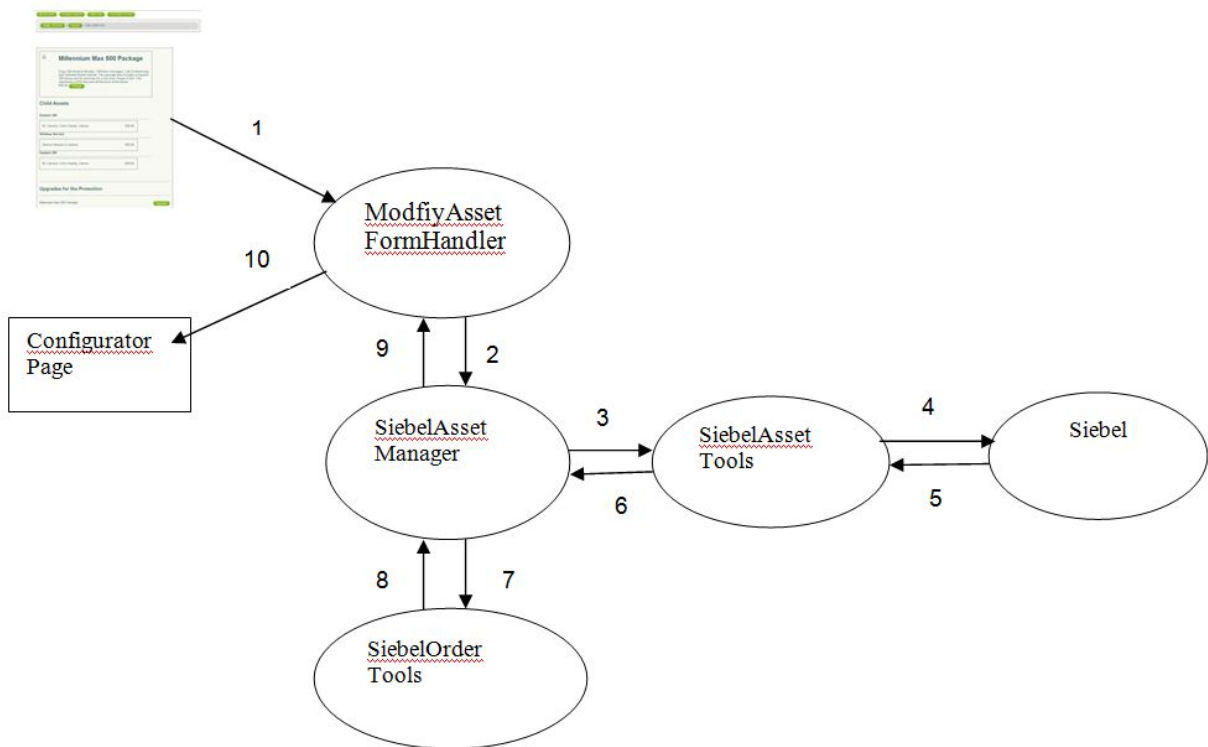
More details on Asset Based ordering is available on

[Siebel Order Management Guide, chapter 16 Using Asset Based Ordering](#)

Modify Asset

This section describes the elements and flow, for the modification of an asset. The process is executed when a user logs into the reference integration and click on the “Assets” button from the home page. The list of assets for that user will be displayed. The assets could of any type namely Simple Product, Simple product with attributes, configurable product and Promotion. The user can view any asset by clicking on the asset number and the details of the asset will be displayed. The modify asset process is initiated when the shopper clicks the “Change” button in the asset detail page.

Architectural Diagram



Modify Asset Process Overview

1. The asset can be modified by clicking the “Change” button in the asset_details.jsp and the control is handled by ModifyAssetFormHandler.
2. Modify Asset Form Handler’s handleModifyAsset method calls the SiebelAssetManager’s modifyAsset method to retrieve the quote from Siebel.
3. SiebelAssetManager calls the SiebelAssetTools getSiebelQuote method to get the quote for that particular asset from siebel.
4. SiebelAssetTools invoke the ModifyAsset web service call to Siebel by specifying the asset number in the request.
5. Siebel returns the ModifyAsset web service response to the SiebelAssetTools. The response contains a quote, which in turn contains a list of quote items.
6. SiebelAssetTools extracts the quote from the response and return it to Siebel Asset Manager
7. SiebelAssetManager creates the commerce items from this quote by calling the SiebelOrderTools
8. SiebelOrderTools creates the commerce items from the quote items and add the commerce items to the order. The new order is returned to the SiebelAssetManager
9. SiebelAssetManager mergeOrder method merges the new order that has been created with the current order of the shopping cart by invoking the mergeOrders method and create a product configuration instance from the commerce items by invoking createPCIFFromCommerceItem method. It returns the success URL to the ModifyAssetFormHandler.
10. ModifyAssetFormHandler redirects to the promotion edit page (for Promotion asset) or product configurator page (for other assets). Then it follows the normal configuration. In the view cart page the product is displayed with the proper action codes based on the actions performed.(i.e The unchanged products with action code “NoAction” and updated products with action code “Update”)

Web service calls

ModifyAssetToQuote Request:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header>
    <sbh:SessionType xmlns:sbh="http://siebel.com/webservices">Stateless</sbh:SessionType>
    <sbh:LangCode xmlns:sbh="http://siebel.com/webservices">ENU</sbh:LangCode>
    <sbh:Locale xmlns:sbh="http://siebel.com/webservices">ENU</sbh:Locale>
    <sbh:UsernameToken xmlns:sbh="http://siebel.com/webservices">SADMIN</sbh:UsernameToken>
    <sbh>PasswordText xmlns:sbh="http://siebel.com/webservices">MSSQL</sbh>PasswordText>
  </S:Header>
  <S:Body>
    <ns2:ModifyAssetToQuote_Input xmlns="http://siebel.com/OrderManagement/Order/Data"
```

```

xmlns:ns2="http://siebel.com/OrderManagement/ABO" xmlns:ns3="ht
tp://siebel.com/OrderManagement/Quote/Data"
xmlns:ns4="http://siebel.com/OrderManagement/Asset/Data">
<ns2:AssetNumber>296-67362840</ns2:AssetNumber>
</ns2:ModifyAssetToQuote_Input>
</S:Body>
</S:Envelope>

```

ModifyAssetToQuote Response

```

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <SOAP-ENV:Header>
    <siebel-header:SessionToken xmlns:siebel-
header="http://siebel.com/webservices">jr2IBc4nTCam9VZIZmYMjP-
4n25Ddr0IWCgO1UoqXLw0Tf0qsyKjmu2S3
1JsCwBz7mH.icbV0sc-ifo1d56KxY4E-
COSyglgy6LvvyRc76Dlpl3Tl3NWTngtJjONcalYFXNQ675uUNgsCHEeqyfAlfpVq7R5Wg97p44QEU83mx
5Ekpz
gOAY0lofBmGy4978C1S3zSzzsYGgzQZhGMJN4Nf5JfJym3IUUnpf0JsYLLk_</siebel-
header:SessionToken>
  </SOAP-ENV:Header>
  <SOAP-ENV:Body>
    <ns:ModifyAssetToQuote_Output xmlns:ns="http://siebel.com/OrderManagement/ABO">
      <ns:ActiveDocumentId>88-16HK1Z</ns:ActiveDocumentId>
      <ns:Error_spcCode/>
      <ns:Error_spcMessage/>
      <ListOfQuote xmlns="http://siebel.com/OrderManagement/Quote/Data">
        <Quote>
          <ShipToAccount>Rigby, Eleanor</ShipToAccount>
          <PersonalShipToAddressId>No Match Row Id</PersonalShipToAddressId>
          <ShipToAccountId>1CE-3JXL</ShipToAccountId>
          <PersonalBillToStreetAddress/>
          <PersonalShipToStreetAddress/>
          <Name>88-16HK1Z</Name>
          <ContactId/>
          <PersonalBillToAddressId>No Match Row Id</PersonalBillToAddressId>
          <Account>Rigby, Eleanor</Account>
          <ConflictId>0</ConflictId>
          <Created>06/11/2014 03:26:07</Created>
          <ShippingCity/>
          <AccountLoc>San Francisco</AccountLoc>
          <Id>88-16HK1Z</Id>
          <EndDate>06/12/2014 00:00:00</EndDate>
          <Updated>06/11/2014 03:26:07</Updated>
          <ShippingState/>
          <StartDate>06/11/2014 00:00:00</StartDate>
          <ShippingPostalCode/>

```

<ExchangeDate/>
<PrimaryOrganizationId>0-R9NH</PrimaryOrganizationId>
<ModId>0</ModId>
<PersonalBillToCountry/>
<PersonalBillToState/>
<AccountShipToAddress/>
<AccountShipToContactCellPhone/>
<AccountShipToContactEmail/>
<AccountShipToContactFirstName/>
<AccountShipToContactHomePhone/>
<AccountShipToContactLastName/>
<AccountShipToContactWorkPhone/>
<CarrierCode/>
<CompoundProductNumber>88-16HK1Z</CompoundProductNumber>
<FreightTerms/>
<TaxExemptReason/>
<ServiceAccount>Rigby, Eleanor</ServiceAccount>
<PersonalShipToState/>
<PersonalShipToCountry/>
<CarrierPriority>Next Day</CarrierPriority>
<AccountContractedProductsOnlyFlag>N</AccountContractedProductsOnlyFlag>
<AccountId>1CE-3JXL</AccountId>
<AccountShipToAddress2/>
<AccountShipToCity/>
<AccountShipToIntegrationId/>
<AccountShipToState/>
<AccountShipToZip/>
<AccountType>Residential</AccountType>
<Active>Y</Active>
<BillToAccountId/>
<BillToAddressId>No Match Row Id</BillToAddressId>
<BillToContactId>No Match Row Id</BillToContactId>
<BillingAccount>Rigby, Eleanor</BillingAccount>
<ShippingCountry/>
<CurrencyCode>USD</CurrencyCode>
<Description/>
<Discount/>
<DiscountAmount/>
<DueDate>06/12/2014 00:00:00</DueDate>
<Freight/>
<IntegrationId/>
<MRCTotal>0</MRCTotal>
<NRCTotal>0</NRCTotal>
<OpportunityId/>
<PersonalBillToCity/>
<PersonalBillToPostalCode/>
<PersonalBillToStreetAddress2/>
<PersonalShipToCity/>
<PersonalShipToPostalCode/>
<PersonalShipToStreetAddress2/>
<PrePickMode>Quote</PrePickMode>

<PriceListId/>
 <QuoteNumber>88-16HK1Z</QuoteNumber>
 <QuoteSubType/>
 <QuoteType>Quotation</QuoteType>
 <RequestedShipDate>06/11/2014 00:00:00</RequestedShipDate>
 <Revision>1</Revision>
 <ServiceAccountId>1CE-3JXL</ServiceAccountId>
 <ShipToAddressId>No Match Row Id</ShipToAddressId>
 <ShipToContactId/>
 <Status>In Progress</Status>
 <ShippingStreetAddress/>
 <TaxAmount/>
 <TaxExempt>N</TaxExempt>
 <TaxExemptNumber/>
 <TaxRate/>
 <ListOfQuoteItem>
 <QuoteItem>
 <OverrideRepriceFlag>N</OverrideRepriceFlag>
 <DiscountAmount/>
 <DiscountPercent/>
 <PersonalShipToAddressId/>
 <BusinessShipToAddress/>
 <PersonalShipToAddress/>
 <ShipToAccountId>1CE-3JXL</ShipToAccountId>
 <DiscountSource>Manual</DiscountSource>
 <ListPrice/>
 <Name>Anytime_750mins</Name>
 <OrigListPrice/>
 <PricingComments/>
 <ProductId>88-25515</ProductId>
 <Quantity>1</Quantity>
 <RollupAmount/>
 <RollupItemPrice/>
 <SmartPartNumber/>
 <UnitPrice/>
 <ConfigurationModelId>88-25515</ConfigurationModelId>
 <ConflictId>0</ConflictId>
 <Created>06/11/2014 03:26:07</Created>
 <Updated>06/11/2014 03:26:07</Updated>
 <VolumeUpsellItem/>
 <VolumeDiscountItem/>
 <RootProductId>88-25515</RootProductId>
 <IsPrePickCartItem/>
 <RootBundleFlag>N</RootBundleFlag>
 <ModId>0</ModId>
 <EffectiveFrom/>
 <Id>88-16HK48</Id>
 <InclusiveEligibilityFlag>N</InclusiveEligibilityFlag>
 <HasGenerics/>
 <NeedRefreshBasePrice>Y</NeedRefreshBasePrice>
 <ParentQuoteItemId/>

<PriceListId/>
 <PrePickCD>Y</PrePickCD>
 <PostPickCD/>
 <ProdPromName/>
 <ProductLineId>No Match Row Id</ProductLineId>
 <EffectiveTo/>
 <CoveredQuoteItemId/>
 <ServiceAccount>Rigby, Eleanor</ServiceAccount>
 <ShipToAccount>Rigby, Eleanor</ShipToAccount>
 <CarrierPriority/>
 <CarrierCode/>
 <ContactLastName>Rigby</ContactLastName>
 <FreightTerms/>
 <ShipToContactLastName/>
 <AccountId>1CE-3JXL</AccountId>
 <ActionCode>-</ActionCode>
 <AssetIntegrationId>88-142OJP</AssetIntegrationId>
 <CfgStateCode/>
 <CfgType/>
 <ClassId>88-254OI</ClassId>
 <ContactEmail/>
 <ContactFirstName>Eleanor</ContactFirstName>
 <ContactHomePhone/>
 <ContactId>1CE-3JXT</ContactId>
 <ContactWorkPhone/>
 <Cost/>
 <CoveredAssetProductId/>
 <CoveredProductId/>
 <CoveredProductNetPrice/>
 <CurrencyCode>USD</CurrencyCode>
 <CurrentPrice/>
 <Description/>
 <Discount/>
 <EligibilityReason/>
 <EligibilityStatus/>
 <ExchangeDate>06/12/2014</ExchangeDate>
 <ExcludePricingFlag>N</ExcludePricingFlag>
 <ExtendedQuantityRequested>1</ExtendedQuantityRequested>
 <ForcastableFlag>Y</ForcastableFlag>
 <FreightAmount/>
 <HeaderDiscountAmount/>
 <QuoteId>88-16HK1Z</QuoteId>
 <IntegrationId>88-16HK2V</IntegrationId>
 <IsPromEligible>Y</IsPromEligible>
 <ItemPriceListId/>
 <LineNumber>1</LineNumber>
 <MRCCxTotal>0</MRCCxTotal>
 <MaxPrice/>
 <MinPrice/>
 <NRCCxTotal>0</NRCCxTotal>
 <NetPrice/>

<PersonalShipToAddress2/>
 <PersonalShipToCity/>
 <PersonalShipToCountry/>
 <PersonalShipToState/>
 <PersonalShipToZip/>
 <PortItemId/>
 <PriceType>One-Time</PriceType>
 <PricingAdjustmentAmount/>
 <ProdItemId/>
 <ProdPromId/>
 <ProdPromInstanceId/>
 <ProdPromRuleId/>
 <ProdPromSourceId/>
 <ProductStructureType>None</ProductStructureType>
 <ProductTypeCode>Service</ProductTypeCode>
 <ProductXAClassId>88-2540I</ProductXAClassId>
 <RequestedDeliveryDate>06/11/2014 00:00:00</RequestedDeliveryDate>
 <RootAssetIntegrationId>88-142OJP</RootAssetIntegrationId>
 <RootQuoteItemId>88-16HK48</RootQuoteItemId>
 <SalesServiceFlag>N</SalesServiceFlag>
 <ServiceAccountId>1CE-3JXL</ServiceAccountId>
 <ServiceLength/>
 <ServiceLengthUoM/>
 <ServicePriceMethod/>
 <ServicePricePercent/>
 <BusinessShipToAddress2/>
 <BusinessShipToCity/>
 <BusinessShipToCountry/>
 <BusinessShipToState/>
 <BusinessShipToZip/>
 <BusinessShipToAddressId>No Match Row Id</BusinessShipToAddressId>
 <ShipToCity/>
 <ShipToContactEmail/>
 <ShipToContactFirstName/>
 <ShipToContactHomePhone/>
 <ShipToContactId/>
 <ShipToContactWorkPhone/>
 <ShipToCountry/>
 <ShipToPostalCode/>
 <ShipToState/>
 <TaxAmt/>
 <UnitofMeasure/>
 <UsageAssetProductId/>
 <VolumeDiscountId/>
 <VolumeDiscountItemId/>
 <VolumeUpsellItemId/>
 <VolumeUpsellMessage/>
 <ListOfQuoteItemXA>
 <QuoteItemXA>
 <PropTypeCD>Text</PropTypeCD>
 <Validation/>

```

    <Value>Anytime Minutes 1000(Add $59.99)</Value>
    <ConflictId>0</ConflictId>
    <Id>88-16HK4B</Id>
    <Created>06/11/2014 03:26:07</Created>
    <ObjectId>88-16HK48</ObjectId>
    <Updated>06/11/2014 03:26:07</Updated>
    <ModId>0</ModId>
    <XAId>88-254K8</XAId>
    <ActionCode>-</ActionCode>
    <CfgStateCode/>
    <DataType>Text</DataType>
    <DisplayName>Anytime Minutes</DisplayName>
    <Hidden>N</Hidden>
    <LOVType/>
    <Attribute>Anytime Minutes</Attribute>
    <ReadOnly>N</ReadOnly>
    <Required>N</Required>
    <Sequence/>
    <UnitofMeasure/>
  </QuoteItemXA>
</ListOfQuoteItemXA>
  <BillingAccountId>1CE-3JXL</BillingAccountId>
  <BillingAccount>Rigby, Eleanor</BillingAccount>
  <BillingAccountAddress>203 lakeview street5</BillingAccountAddress>
  <BillingAccountNumber>1CE-3JXL</BillingAccountNumber>
  <BillingAccountLocation>San Francisco</BillingAccountLocation>
  <BillingProfileId>88-5ENBD</BillingProfileId>
  <BillingProfileName>88-5ENBD</BillingProfileName>
  <BillingAccountAddress2/>
  <BillingAccountAddressId>88-3DI1V</BillingAccountAddressId>
  <BillingAccountCity>Redwood</BillingAccountCity>
  <BillingAccountContactId>1CE-3JXT</BillingAccountContactId>
  <BillingAccountCountry>USA</BillingAccountCountry>
  <BillingAccountState/>
  <BillingAccountZip>94718</BillingAccountZip>
  <BillingContactEmail/>
  <BillingContactFirstName>Eleanor</BillingContactFirstName>
  <BillingContactLastName>Rigby</BillingContactLastName>
  <BillingContactWorkPhone/>
  <DonatingServiceProvider/>
  <EndingPhoneNumber/>
  <LegacyAccountNumber/>
  <NumberPortabilityAgencyName/>
  <NumberToPort/>
  <PIN/>
  <RequestedPortingDate/>
  <ServicePostalCode/>
  <StartingPhoneNumber/>
  <ServiceId/>
</QuoteItem>
</ListOfQuoteItem>

```



```
<BillingAccountId>1CE-3JXL</BillingAccountId>
<BillingAccountLocation>San Francisco</BillingAccountLocation>
<BillingAccountNumber>1CE-3JXL</BillingAccountNumber>
<BillingProfileId/>
<BillingProfileName/>
<ServiceAccountNumber>1CE-3JXL</ServiceAccountNumber>
<Comments/>
<BillingAccountAddress>203 lakeview street5</BillingAccountAddress>
<BillingAccountAddress2/>
<BillingAccountAddressId>88-3DI1V</BillingAccountAddressId>
<BillingAccountCity>Redwood</BillingAccountCity>
<BillingAccountContactId>1CE-3JXT</BillingAccountContactId>
<BillingAccountCountry>USA</BillingAccountCountry>
<BillingAccountState/>
<BillingAccountZip>94718</BillingAccountZip>
<BillingContactEmail/>
<BillingContactFirstName>Eleanor</BillingContactFirstName>
<BillingContactLastName>Rigby</BillingContactLastName>
<BillingContactWorkPhone/>
</Quote>
</ListOfQuote>
</ns:ModifyAssetToQuote_Output>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Refer the attachment for a sample request and response of ModifyAssetToQuote webservice

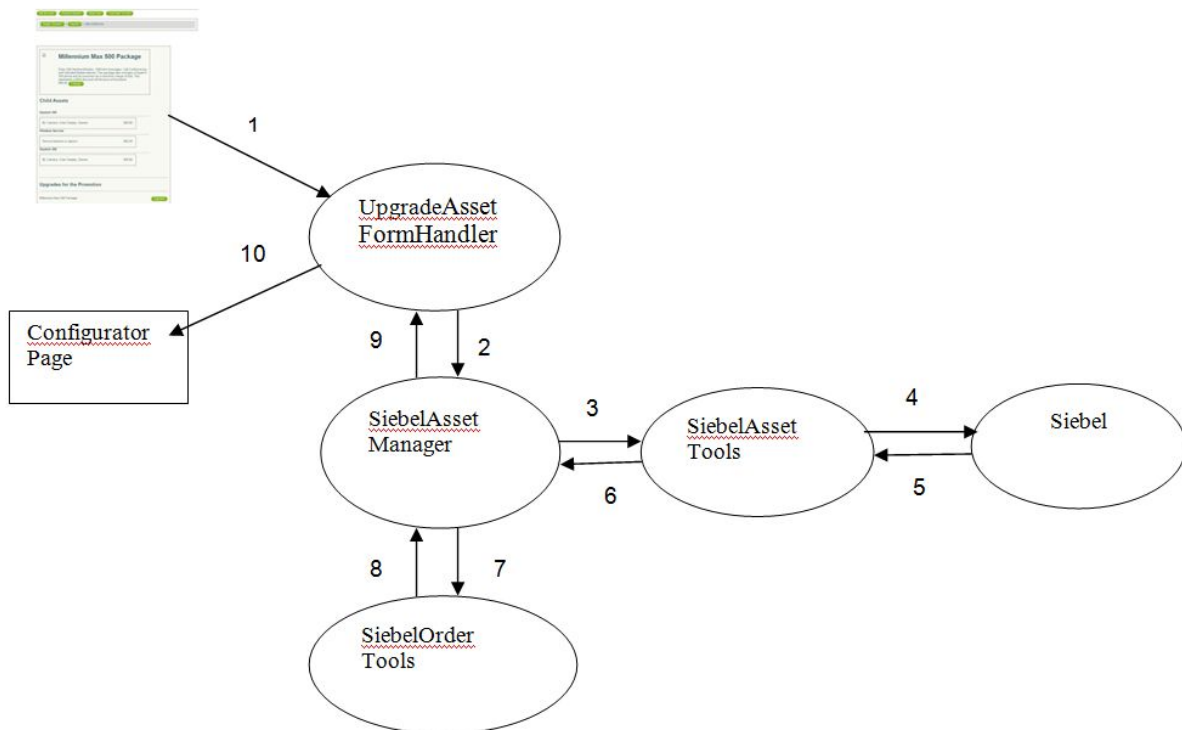


ModifyAssetToQuote_Webservice.zip

Upgrade Promotion

This section describes the elements and flow, for the upgrade process of a promotion asset. The process is executed when a user logs into the reference integration and click on the “Assets” button from the home page. The list of assets for that user will be displayed. From that list the user can select any of the promotion assets by clicking on the asset number and the details of the asset will be displayed. The upgrade process is initiated when the shopper clicks the “Upgrade” button that is next to any of the promotions listed under recommended promotions in the asset detail page.

Architectural Diagram



Upgrade Promotion Process Overview

1. A promotion asset can be upgraded to any other promotion by clicking the “Upgrade” button that is next to the recommended promotions in the asset_details.jsp and the control is handled by UpgradeAssetFormHandler.
2. Upgrade Asset Form Handler handleUpgradeAsset method calls the SiebelAssetManager upgradeAsset method to retrieve the quote for upgrade promotion from Siebel and other activities in upgrade process.
3. SiebelAssetManager calls the SiebelAssetTools getSiebelQuoteForAssetUpgradation method to get the quote for the upgrade promotion from siebel.
4. SiebelAssetTools invokes the Upgrade promotion web service call to Siebel by specifying the asset number, new product id, account id etc. in the request.
5. Siebel returns the Upgrade promotion web service response to the SiebelAssetTools. The response contains a quote, which in turn contains a list of quote items of both source and target promotions. Each quote item has its specific properties such as action code, asset integration id etc.
6. SiebelAssetTools extracts the quote from the response and return it to Siebel Asset Manager
7. SiebelAssetManager converts this quote to order by calling the SiebelOrderTools
8. SiebelOrderTools creates the commerce items from the quote items and add the commerce items to the order. The new order is returned to the SiebelAssetManager
9. SiebelAssetManager merges the new order that has been created from the quote with the current order of the shopping cart by invoking mergeOrders method and create a product configuration instance from the commerce item of the target promotion by invoking createPCIFFromCommerceItem method. It returns the success URL to the UpgradeAssetFormHandler.
10. UpgradeAssetFormHandler renders the promotion edit page (for Promotion asset) or product configurator page (for other assets) based on the type of the asset. Then it follows the normal configuration. In the view cart page the product is displayed with the proper action codes based on the actions performed.(i.e The new promotion and its child products with action code “Add”, old promotion and its child products with action code “Delete” and common child products for both the promotions with action code “Update”)

Web service calls

UpgradePromotionToQuote Request

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header>
    <sbh:SessionType xmlns:sbh="http://siebel.com/webservices">Stateless</sbh:SessionType>
    <sbh:LangCode xmlns:sbh="http://siebel.com/webservices">ENU</sbh:LangCode>
    <sbh:Locale xmlns:sbh="http://siebel.com/webservices">ENU</sbh:Locale>
    <sbh:UsernameToken xmlns:sbh="http://siebel.com/webservices">SADMIN</sbh:UsernameToken>
    <sbh:PasswordText xmlns:sbh="http://siebel.com/webservices">MSSQL</sbh:PasswordText>
  </S:Header>
  <S:Body>
    <ns6:UpgradePromotionToQuote_Input xmlns="http://siebel.com/OrderManagement/Order/Data"
      xmlns:ns2="http://siebel.com/OrderManagement/Catalog/Data/Product"
      xmlns:ns3="http://siebel.com/OrderManagement/Catalog/Data/CatalogContext"
      xmlns:ns4="http://siebel.com/OrderManagement/Promotion/Data"
      xmlns:ns5="http://siebel.com/OrderManagement/Quote/Data"
      xmlns:ns6="http://siebel.com/OrderManagement/Promotion">
      <ns6:NewPromotionId>88-231OB</ns6:NewPromotionId>
      <ns6:AssetNumber>296-67363331</ns6:AssetNumber>
      <ns6:AccountId>1CE-3JXL</ns6:AccountId>
    </ns6:UpgradePromotionToQuote_Input>
  </S:Body>
</S:Envelope>
```

UpgradePromotionToQuote Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <SOAP-ENV:Header>
    <siebel-header:SessionToken xmlns:siebel-
      header="http://siebel.com/webservices">JGsOJmVTIk6NhTxnOd6MBBu6FEEJ-
      0Yfwl9k4rRdG3L.lthJSSGERYB8.3pSAIIZNVWaEUCxIZOVPyZ-
      i.p2kT.mOb1RVosrw6NBRNrR9YTTocaK0dYpNyO2HBitdJAinOBPMKis6OiiwbLZAvRkqVLgpqjn5JdNQ
      m7OSyBylkdI5I2UFoj.pgZhhzv-
      PR4SGbP5HmkdZfQJ1ewJYqlWaZzDs28GloqycBGqXi71bVBbFSHGtfl7vZDpQ7Cyb30udbng2vlG8yi.o
      DTE3lhbgkR4yzQmZIkY4Ids-Ool8_</siebel-header:SessionToken>
    </SOAP-ENV:Header>
    <SOAP-ENV:Body>
      <ns:UpgradePromotionToQuote_Output xmlns:ns="http://siebel.com/OrderManagement/Promotion">
        <ns:ActiveDocumentId>88-16HLSR</ns:ActiveDocumentId>
        <ns:Error_spcCode/>
        <ns:Error_spcMessage/>
        <ListOfQuote xmlns="http://siebel.com/OrderManagement/Quote/Data">
          <Quote>
            <ShipToAccount>Rigby, Eleanor</ShipToAccount>
            <PersonalShipToAddressId>No Match Row Id</PersonalShipToAddressId>
          </Quote>
        </ListOfQuote>
      </ns:UpgradePromotionToQuote_Output>
    </SOAP-ENV:Body>
  </SOAP-ENV:Envelope>
```

<ShipToAccountId>1CE-3JXL</ShipToAccountId>
<PersonalBillToStreetAddress/>
<PersonalShipToStreetAddress/>
<Name>88-16HLSR</Name>
<ContactId/>
<PersonalBillToAddressId>No Match Row Id</PersonalBillToAddressId>
<Account>Rigby, Eleanor</Account>
<ConflictId>0</ConflictId>
<Created>06/11/2014 03:57:58</Created>
<ShippingCity/>
<AccountLoc>San Francisco</AccountLoc>
<Id>88-16HLSR</Id>
<EndDate>06/12/2014 00:00:00</EndDate>
<Updated>06/11/2014 03:57:58</Updated>
<ShippingState/>
<StartDate>06/11/2014 00:00:00</StartDate>
<ShippingPostalCode/>
<ExchangeDate/>
<PrimaryOrganizationId>0-R9NH</PrimaryOrganizationId>
<ModId>0</ModId>
<PersonalBillToCountry/>
<PersonalBillToState/>
<AccountShipToAddress/>
<AccountShipToContactCellPhone/>
<AccountShipToContactEmail/>
<AccountShipToContactFirstName/>
<AccountShipToContactHomePhone/>
<AccountShipToContactLastName/>
<AccountShipToContactWorkPhone/>
<CarrierCode/>
<CompoundProductNumber>88-16HLSR</CompoundProductNumber>
<FreightTerms/>
<TaxExemptReason/>
<ServiceAccount>Rigby, Eleanor</ServiceAccount>
<PersonalShipToState/>
<PersonalShipToCountry/>
<CarrierPriority>Next Day</CarrierPriority>
<AccountContractedProductsOnlyFlag>N</AccountContractedProductsOnlyFlag>
<AccountId>1CE-3JXL</AccountId>
<AccountShipToAddress2/>
<AccountShipToCity/>
<AccountShipToIntegrationId/>
<AccountShipToState/>
<AccountShipToZip/>
<AccountType>Residential</AccountType>
<Active>Y</Active>
<BillToAccountId/>
<BillToAddressId>No Match Row Id</BillToAddressId>
<BillToContactId>No Match Row Id</BillToContactId>
<BillingAccount>Rigby, Eleanor</BillingAccount>
<ShippingCountry/>

```

<CurrencyCode>USD</CurrencyCode>
<Description/>
<Discount/>
<DiscountAmount/>
<DueDate>06/12/2014 00:00:00</DueDate>
<Freight/>
<IntegrationId/>
<MRCTotal>0</MRCTotal>
<NRCTotal>0</NRCTotal>
<OpportunityId/>
<PersonalBillToCity/>
<PersonalBillToPostalCode/>
<PersonalBillToStreetAddress2/>
<PersonalShipToCity/>
<PersonalShipToPostalCode/>
<PersonalShipToStreetAddress2/>
<PrePickMode>Quote</PrePickMode>
<PriceListId/>
<QuoteNumber>88-16HLSR</QuoteNumber>
<QuoteSubType/>
<QuoteType>Quotation</QuoteType>
<RequestedShipDate>06/11/2014 00:00:00</RequestedShipDate>
<Revision>1</Revision>
<ServiceAccountId>1CE-3JXL</ServiceAccountId>
<ShipToAddressId>No Match Row Id</ShipToAddressId>
<ShipToContactId/>
<Status>In Progress</Status>
<ShippingStreetAddress/>
<TaxAmount/>
<TaxExempt>N</TaxExempt>
<TaxExemptNumber/>
<TaxRate/>
<ListOfQuoteItem>
  <QuoteItem>
    <OverrideRepriceFlag>N</OverrideRepriceFlag>
    <DiscountAmount/>
    <DiscountPercent/>
    <PersonalShipToAddressId/>
    <BusinessShipToAddress/>
    <PersonalShipToAddress/>
    <ShipToAccountId>1CE-3JXL</ShipToAccountId>
    <DiscountSource>Manual</DiscountSource>
    <ListPrice/>
    <Name>Phone in a box</Name>
    <OrigListPrice/>
    <PricingComments/>
    <ProductId>88-23AO2</ProductId>
    <Quantity>1</Quantity>
    <RollupAmount>0</RollupAmount>
    <RollupItemPrice>0</RollupItemPrice>
    <SmartPartNumber/>
  
```

<UnitPrice/>
<ConfigurationModelId>88-23AO2</ConfigurationModelId>
<ConflictId>0</ConflictId>
<Created>06/11/2014 03:58:18</Created>
<Updated>06/11/2014 03:58:19</Updated>
<VolumeUpsellItem/>
<VolumeDiscountItem/>
<RootProductId>88-23AO2</RootProductId>
<IsPrePickCartItem/>
<RootBundleFlag>N</RootBundleFlag>
<ModId>1</ModId>
<EffectiveFrom/>
<Id>88-16HM1Q</Id>
<InclusiveEligibilityFlag>N</InclusiveEligibilityFlag>
<HasGenerics/>
<NeedRefreshBasePrice>Y</NeedRefreshBasePrice>
<ParentQuoteItemId/>
<PriceListId/>
<PrePickCD>N</PrePickCD>
<PostPickCD/>
<ProdPromName/>
<ProductLineId>No Match Row Id</ProductLineId>
<EffectiveTo/>
<CoveredQuoteItemId/>
<ServiceAccount>Rigby, Eleanor</ServiceAccount>
<ShipToAccount>Rigby, Eleanor</ShipToAccount>
<CarrierPriority/>
<CarrierCode/>
<ContactLastName>Rigby</ContactLastName>
<FreightTerms/>
<ShipToContactLastName/>
<AccountId>1CE-3JXL</AccountId>
<ActionCode>Delete</ActionCode>
<AssetIntegrationId>88-143TPB</AssetIntegrationId>
<CfgStateCode/>
<CfgType/>
<ClassId/>
<ContactEmail/>
<ContactFirstName>Eleanor</ContactFirstName>
<ContactHomePhone/>
<ContactId>1CE-3JXT</ContactId>
<ContactWorkPhone/>
<Cost/>
<CoveredAssetProductId/>
<CoveredProductId/>
<CoveredProductNetPrice/>
<CurrencyCode>USD</CurrencyCode>
<CurrentPrice/>
<Description/>
<Discount/>
<EligibilityReason/>

<EligibilityStatus/>
<ExchangeDate>06/12/2014</ExchangeDate>
<ExcludePricingFlag>N</ExcludePricingFlag>
<ExtendedQuantityRequested>1</ExtendedQuantityRequested>
<ForcastableFlag>Y</ForcastableFlag>
<FreightAmount/>
<HeaderDiscountAmount/>
<QuoteId>88-16HLSR</QuoteId>
<IntegrationId>88-16HM1M</IntegrationId>
<IsPromEligible>N</IsPromEligible>
<ItemPriceListId/>
<LineNumber>3</LineNumber>
<MRCCxTotal>0</MRCCxTotal>
<MaxPrice/>
<MinPrice/>
<NRCCxTotal>0</NRCCxTotal>
<NetPrice/>
<PersonalShipToAddress2/>
<PersonalShipToCity/>
<PersonalShipToCountry/>
<PersonalShipToState/>
<PersonalShipToZip/>
<PortItemId/>
<PriceType>One-Time</PriceType>
<PricingAdjustmentAmount/>
<ProdItemId/>
<ProdPromId/>
<ProdPromInstancelId/>
<ProdPromRuleId/>
<ProdPromSourceId/>
<ProductStructureType>None</ProductStructureType>
<ProductTypeCode>Promotion</ProductTypeCode>
<ProductXAClassId/>
<RequestedDeliveryDate/>
<RootAssetIntegrationId>88-143TPB</RootAssetIntegrationId>
<RootQuoteItemId>88-16HM1Q</RootQuoteItemId>
<SalesServiceFlag>N</SalesServiceFlag>
<ServiceAccountId>1CE-3JXL</ServiceAccountId>
<ServiceLength/>
<ServiceLengthUoM/>
<ServicePriceMethod/>
<ServicePricePercent/>
<BusinessShipToAddress2/>
<BusinessShipToCity/>
<BusinessShipToCountry/>
<BusinessShipToState/>
<BusinessShipToZip/>
<BusinessShipToAddressId>No Match Row Id</BusinessShipToAddressId>
<ShipToCity/>
<ShipToContactEmail/>
<ShipToContactFirstName/>

<ShipToContactHomePhone/>
 <ShipToContactId/>
 <ShipToContactWorkPhone/>
 <ShipToCountry/>
 <ShipToPostalCode/>
 <ShipToState/>
 <TaxAmt/>
 <UnitofMeasure/>
 <UsageAssetProductId/>
 <VolumeDiscountId/>
 <VolumeDiscountItemId/>
 <VolumeUpsellItemId/>
 <VolumeUpsellMessage/>
 <ListOfQuoteItemXA/>
 <BillingAccountId>1CE-3JXL</BillingAccountId>
 <BillingAccount>Rigby, Eleanor</BillingAccount>
 <BillingAccountAddress>203 lakeview street5</BillingAccountAddress>
 <BillingAccountNumber>1CE-3JXL</BillingAccountNumber>
 <BillingAccountLocation>San Francisco</BillingAccountLocation>
 <BillingProfileId>88-5ENBD</BillingProfileId>
 <BillingProfileName>88-5ENBD</BillingProfileName>
 <BillingAccountAddress2/>
 <BillingAccountAddressId>88-3DI1V</BillingAccountAddressId>
 <BillingAccountCity>Redwood</BillingAccountCity>
 <BillingAccountContactId>1CE-3JXT</BillingAccountContactId>
 <BillingAccountCountry>USA</BillingAccountCountry>
 <BillingAccountState/>
 <BillingAccountZip>94718</BillingAccountZip>
 <BillingContactEmail/>
 <BillingContactFirstName>Eleanor</BillingContactFirstName>
 <BillingContactLastName>Rigby</BillingContactLastName>
 <BillingContactWorkPhone/>
 <DonatingServiceProvider/>
 <EndingPhoneNumber/>
 <LegacyAccountNumber/>
 <NumberPortabilityAgencyName/>
 <NumberToPort/>
 <PIN/>
 <RequestedPortingDate/>
 <ServicePostalCode/>
 <StartingPhoneNumber/>
 <ServiceId/>
 </QuoteItem>
 <QuoteItem>
 <OverrideRepriceFlag>N</OverrideRepriceFlag>
 <DiscountAmount/>
 <DiscountPercent/>
 <PersonalShipToAddressId/>
 <BusinessShipToAddress/>
 <PersonalShipToAddress/>
 <ShipToAccountId>1CE-3JXL</ShipToAccountId>

<DiscountSource>Manual</DiscountSource>
<ListPrice/>
<Name>Millennium Max 500 Package</Name>
<OrigListPrice/>
<PricingComments/>
<ProductId>88-231OB</ProductId>
<Quantity>1</Quantity>
<RollupAmount>0</RollupAmount>
<RollupItemPrice>0</RollupItemPrice>
<SmartPartNumber/>
<UnitPrice/>
<ConfigurationModelId>88-231OB</ConfigurationModelId>
<ConflictId>0</ConflictId>
<Created>06/11/2014 03:58:19</Created>
<Updated>06/11/2014 03:58:22</Updated>
<VolumeUpsellItem/>
<VolumeDiscountItem/>
<RootProductId>88-231OB</RootProductId>
<IsPrePickCartItem/>
<RootBundleFlag>N</RootBundleFlag>
<ModId>1</ModId>
<EffectiveFrom/>
<Id>88-16HM35</Id>
<InclusiveEligibilityFlag>N</InclusiveEligibilityFlag>
<HasGenerics/>
<NeedRefreshBasePrice>Y</NeedRefreshBasePrice>
<ParentQuoteItemId/>
<PriceListId/>
<PrePickCD>N</PrePickCD>
<PostPickCD/>
<ProdPromName/>
<ProductLineId>No Match Row Id</ProductLineId>
<EffectiveTo/>
<CoveredQuoteItemId/>
<ServiceAccount>Rigby, Eleanor</ServiceAccount>
<ShipToAccount>Rigby, Eleanor</ShipToAccount>
<CarrierPriority>Next Day</CarrierPriority>
<CarrierCode/>
<ContactLastName/>
<FreightTerms/>
<ShipToContactLastName/>
<AccountId>1CE-3JXL</AccountId>
<ActionCode>Add</ActionCode>
<AssetIntegrationId>88-16HM35</AssetIntegrationId>
<CfgStateCode>New Item</CfgStateCode>
<CfgType/>
<ClassId/>
<ContactEmail/>
<ContactFirstName/>
<ContactHomePhone/>
<ContactId/>

<ContactWorkPhone/>
<Cost/>
<CoveredAssetProductId/>
<CoveredProductId/>
<CoveredProductNetPrice/>
<CurrencyCode>USD</CurrencyCode>
<CurrentPrice/>
<Description/>
<Discount/>
<EligibilityReason/>
<EligibilityStatus/>
<ExchangeDate>06/11/2014</ExchangeDate>
<ExcludePricingFlag>N</ExcludePricingFlag>
<ExtendedQuantityRequested>1</ExtendedQuantityRequested>
<ForcastableFlag>Y</ForcastableFlag>
<FreightAmount/>
<HeaderDiscountAmount>0</HeaderDiscountAmount>
<QuoteId>88-16HLSR</QuoteId>
<IntegrationId>88-16HM35</IntegrationId>
<IsPromEligible>N</IsPromEligible>
<ItemPriceListId/>
<LineNumber>4</LineNumber>
<MRCCxTotal>0</MRCCxTotal>
<MaxPrice/>
<MinPrice/>
<NRCCxTotal>0</NRCCxTotal>
<NetPrice/>
<PersonalShipToAddress2/>
<PersonalShipToCity/>
<PersonalShipToCountry/>
<PersonalShipToState/>
<PersonalShipToZip/>
<PortItemId/>
<PriceType>One-Time</PriceType>
<PricingAdjustmentAmount>0</PricingAdjustmentAmount>
<ProdItemId/>
<ProdPromId/>
<ProdPromInstanceId/>
<ProdPromRuleId/>
<ProdPromSourceId>88-143TPB</ProdPromSourceId>
<ProductStructureType>None</ProductStructureType>
<ProductTypeCode>Promotion</ProductTypeCode>
<ProductXAClassId/>
<RequestedDeliveryDate>06/12/2014 00:00:00</RequestedDeliveryDate>
<RootAssetIntegrationId>88-16HM35</RootAssetIntegrationId>
<RootQuoteItemId>88-16HM35</RootQuoteItemId>
<SalesServiceFlag>N</SalesServiceFlag>
<ServiceAccountId>1CE-3JXL</ServiceAccountId>
<ServiceLength/>
<ServiceLengthUoM/>
<ServicePriceMethod/>

<ServicePricePercent/>
<BusinessShipToAddress2/>
<BusinessShipToCity/>
<BusinessShipToCountry/>
<BusinessShipToState/>
<BusinessShipToZip/>
<BusinessShipToAddressId>No Match Row Id</BusinessShipToAddressId>
<ShipToCity/>
<ShipToContactEmail/>
<ShipToContactFirstName/>
<ShipToContactHomePhone/>
<ShipToContactId/>
<ShipToContactWorkPhone/>
<ShipToCountry/>
<ShipToPostalCode/>
<ShipToState/>
<TaxAmt/>
<UnitofMeasure/>
<UsageAssetProductId/>
<VolumeDiscountId/>
<VolumeDiscountItemId/>
<VolumeUpsellItemId/>
<VolumeUpsellMessage/>
<ListOfQuoteItemXA/>
<BillingAccountId>1CE-3JXL</BillingAccountId>
<BillingAccount>Rigby, Eleanor</BillingAccount>
<BillingAccountAddress>203 lakeview street5</BillingAccountAddress>
<BillingAccountNumber>1CE-3JXL</BillingAccountNumber>
<BillingAccountLocation>San Francisco</BillingAccountLocation>
<BillingProfileId/>
<BillingProfileName/>
<BillingAccountAddress2/>
<BillingAccountAddressId>88-3DI1V</BillingAccountAddressId>
<BillingAccountCity>Redwood</BillingAccountCity>
<BillingAccountContactId>1CE-3JXT</BillingAccountContactId>
<BillingAccountCountry>USA</BillingAccountCountry>
<BillingAccountState/>
<BillingAccountZip>94718</BillingAccountZip>
<BillingContactEmail/>
<BillingContactFirstName>Eleanor</BillingContactFirstName>
<BillingContactLastName>Rigby</BillingContactLastName>
<BillingContactWorkPhone/>
<DonatingServiceProvider/>
<EndingPhoneNumber/>
<LegacyAccountNumber/>
<NumberPortabilityAgencyName/>
<NumberToPort/>
<PIN/>
<RequestedPortingDate/>
<ServicePostalCode/>
<StartingPhoneNumber/>

```

    <ServiceId/>
  </QuoteItem>
  ...
</ListOfQuoteItem>
<BillingAccountId>1CE-3JXL</BillingAccountId>
<BillingAccountLocation>San Francisco</BillingAccountLocation>
<BillingAccountNumber>1CE-3JXL</BillingAccountNumber>
<BillingProfileId/>
<BillingProfileName/>
<ServiceAccountNumber>1CE-3JXL</ServiceAccountNumber>
<Comments/>
<BillingAccountAddress>203 lakeview street5</BillingAccountAddress>
<BillingAccountAddress2/>
<BillingAccountAddressId>88-3DI1V</BillingAccountAddressId>
<BillingAccountCity>Redwood</BillingAccountCity>
<BillingAccountContactId>1CE-3JXT</BillingAccountContactId>
<BillingAccountCountry>USA</BillingAccountCountry>
<BillingAccountState/>
<BillingAccountZip>94718</BillingAccountZip>
<BillingContactEmail/>
<BillingContactFirstName>Eleanor</BillingContactFirstName>
<BillingContactLastName>Rigby</BillingContactLastName>
<BillingContactWorkPhone/>
</Quote>
</ListOfQuote>
</ns:UpgradePromotionToQuote_Output>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

Refer the attachement for a sample request and reponse of UpgradePromotionToQuote web service



UppgadePromotionToQuote_Webservice.zip

ModifyAssetFormHandler

This section explain in detail the modify asset form handler class and component

ModifyAssetFormHandler is responsible for handling the request for asset modification.

ModifyAssetFormHandler Component

The ModifyAssetFormHandler component is defined as follows

```
$class=atg.siebel.asset.formhandlers.ModifyAssetFormHandler
```

```
$scope=request
```

```
shoppingCart=/atg/commerce/ShoppingCart
```

```
uiManager=/atg/siebel/configurator/ui/UIManager
```

```
siebelAssetManager=/atg/siebel/asset/SiebelAssetManager
```

Location:

[atg/siebel/asset/formhandlers/ModifyAssetFormHandler](#)

ModifyAssetFormHandler Class

This is underlying class of the component ModifyAssetFormHandler. It contains the handle method for handling the request for asset modification.

atg.siebel.asset.formhandlers.ModifyAssetFormHandler

Class Declaration

```
public class ModifyAssetFormHandler extends GenericFormHandler
```

Class Data

The class has the following data

1. Asset number
2. UI Manager (a reference to UIManager component)
3. Asset Manager (a reference to SiebelAssetManager component)
4. Error URL (the URL to redirect in case of any error)
5. Shopping cart (a reference to ShoppingCart component)

Class General Implementation

The class has the following methods

handleModifyAsset

public boolean handleModifyAsset(DynamoHttpServletRequest pRequest, DynamoHttpServletResponse pResponse) throws ServletException, IOException

Input:

DynamoHttpServletRequest: request object

DynamoHttpServletResponse: response object

Description

This method manages the modification of a particular asset. It delegates the work to SiebelAssetManager's modifyAsset method, passing the current order, asset number, UIManager instance as parameters.

The method completes by performing a redirect to the success URL returned by that method.

Output

boolean

preModifyAsset

public void preModifyAsset(DynamoHttpServletRequest pRequest, DynamoHttpServletResponse pResponse) throws ServletException, IOException

Input

DynamoHttpServletRequest : request object

DynamoHttpServletResponse: response object

Description:

This method is invoked before any action is performed by the handleModifyAsset method.

postModifyAsset

public void postModifyAsset(DynamoHttpServletRequest pRequest, DynamoHttpServletResponse pResponse) throws ServletException, IOException

Input

DynamoHttpServletRequest : request object

DynamoHttpServletResponse: response object

Description

This method is invoked after all the actions in handleModifyAsset method are performed.

UpgradeAssetFormHandler

This section explain in detail the upgrade asset form handler class and component

UpgradeAssetFormHandler is responsible for handling the request for promotion upgrade.

UpgradeAssetFormHandler Component

The UpgradeAssetFormHandler component is defined as follows

`$class=atg.siebel.asset.formhandlers.UpgradeAssetFormHandler`

`$scope=request`

`shoppingCart=/atg/commerce/ShoppingCart`

`uiManager=/atg/siebel/configurator/ui/UIManager`

`siebelAssetManager=/atg/siebel/asset/SiebelAssetManager`

`profilePropertySiebelAccountId=siebelAccountId`

Location:

`atg/siebel/asset/formhandlers/UpgradeAssetFormHandler`

UpgradeAssetFormHandler Class

This is underlying class of the component UpgradeAssetFormHandler. It contains the handle method for handling the request for promotion upgrade.

atg.siebel.asset.formhandlers.UpgradeAssetFormHandler

Class Declaration

`public class UpgradeAssetFormHandler extends GenericFormHandler`

Class Data

The class has the following data:

1. Asset Number (the asset number that is going to get upgraded)
2. New Product Id (The id associated with the target promotion)
3. UI Manager (a reference to the UIManager Component)
4. Siebel Asset Manager (a reference to the SiebelAssetManager component)

5. Error URL (the URL to redirect incase of any error)
6. Profile Property Siebel Account Id (the value associated with the siebel account id from the profile that denotes the owner of the asset)
7. Shopping Cart (a reference to the ShoppingCart component)

Class General Implementation

The class has the following methods

handleUpgradeAsset

public boolean handleUpgradeAsset(DynamoHttpServletRequest pRequest, DynamoHttpServletResponse pResponse) throws ServletException, IOException

Input

DynamoHttpServletRequest : request object

DynamoHttpServletResponse: response object

Description:

This method manages the upgradation of a Promotion asset to another promotion. It delegates the work to SiebelAssetManager's upgradeAsset method, passing the current order, asset number, UIManager instance, new product Id, Siebel account Id as parameters.

The method completes by performing a redirect to the success URL returned by that method.

Output

boolean

preUpgradeAsset

public void preUpgradeAsset(DynamoHttpServletRequest pRequest, DynamoHttpServletResponse pResponse) throws ServletException, IOException

Input

DynamoHttpServletRequest : request object

DynamoHttpServletResponse: response object

Description:

This method is invoked before any action is performed by the handleUpgradeAsset method.

postUpgradeAsset

public void postUpgradeAsset(DynamoHttpServletRequest pRequest,

DynamoHttpServletRequest pResponse) throws ServletException, IOException

Input

DynamoHttpServletRequest : request object

DynamoHttpServletResponse: response object

Description:

This method is invoked after all the actions in handleUpgradeAsset method are performed.

SiebelAssetManager

This section explain in detail the Siebel asset manager class and component

SiebelAssetManager contains the business logic functionalities related to assets.

SiebelAssetManager Component

The SiebelAssetManager component is defined as follows

\$class=atg.siebel.asset.SiebelAssetManager

\$scope=session

configuratorManager=/atg/siebel/configurator/ConfiguratorManager

catalogTools=/atg/commerce/catalog/CatalogTools

siebelAssetTools=/atg/siebel/asset/SiebelAssetTools

siebelOrderTools=/atg/commerce/order/OrderTools

orderManager=/atg/commerce/order/OrderManager

transactionManager=/atg/dynamo/transaction/TransactionManager

Location:

atg/siebel/asset/SiebelAssetManager

SiebelAssetManager Class

This is underlying class of SiebelAssetManager component. This contains the methods to handle various business logic functionalities related to assets based ordering.

atg.siebel.asset.SiebelAssetManager

Class Declaration

public class SiebelAssetManager extends GenericService

Class Data

The class contains the following data:

1. Configurator Manager (a reference to ConfiguratorManager component)
2. Catalog Tools (a reference to CatalogTools component)
3. Siebel Asset Tools (a reference to SiebelAssetTools component)
4. Siebel Order Tools (a reference to SiebelOrderTools component)
5. Order Manager (a reference to the OrderManager component)
6. Transaction Manager (a reference to the TransactionManager component)

Class General Implementation

The class contains the following methods

convertSiebelQuoteToOrder

public Order convertSiebelQuoteToOrder(Quote pQuote, OrderHolder pShoppingCart, String assetNumber, String pNewProductId, boolean plsUpgradeABO) throws TransformException

Input

pQuote: quote received in response of web service call UpgradePromotionToQuote

pShoppingCart: current shopping cart object

assetNumber: Id of the asset

pNewProductId: Id of the new promotion

plsUpgradeABO: true for upgrade promotion else false

Description:

This method manages to convert the quote that is returned from Siebel to Oracle commerce Order. It delegates the work to SiebelOrderTools's convertSiebelQuoteToOrder method by passing the Siebel quote, profile Id, locale, asset number, new product id , upgrade ABO flag as parameters.

The commerce item from the order is then populated with values for properties like commerce item type, asset number.

Output

Order created out of the quote

mergeOrders

*public Order mergeOrders(Order pSrcOrder, Order pDestOrder)
throws InvalidParameterException, CommerceException*

Input

pSrcOrder: the new order created from Siebel quote

pDestOrder: existing order

Description

This method manages to merge the new order that has been created from Siebel quote with the existing order by invoking OrderManager's mergeOrder method by passing the new order and existing order as parameters. The properties such as quote number and active document id are also copied from the new order to the existing order.

Output

Order created after merging the orders

createPCIFromCommerceltem

*public BaseConfigInstance createPCIFromCommerceltem(SiebelCommerceltem pCommerceltem)
throws Exception*

Input

pCommerceltem: commerce item object

Description

This method creates the product configuration instance (PCI) from the commerce item. If the product is a promotion, it invokes the ConfiguratorManager's buildPromotionFromCommerceltem method by passing the commerce item as parameter. For other types of product it invokes the ConfiguratorManager's createProductInstanceFromCommerceltem method by passing the

Output

Product configuration instance of created from commerce item

getSiebelQuoteForAsset

*public Quote getSiebelQuoteForAsset(final String pAssetNumber,
final String pActiveDocumentId)*

Input

pAssetNumber: Id of the asset

pActiveDocument: Id representing the current active quote

Description

This method is used to retrieve the quote from the Siebel for the given asset number. It delegates the work to SiebelAssetTools's getSiebelQuoteForAsset method by passing asset number as parameter.

Output

Siebel Quote for the asset number

modifyAsset

*public String modifyAsset(final OrderHolder shoppingCart, final String assetNumber, final
UIManager uiManager) throws Exception*

Input

shoppingCart: shopping cart object
assetNumber: Id of the asset
uiManager: ui manager object

Description

This method is used to modify the given asset. It first retrieves the quote from Siebel by invoking `getSiebelQuoteForAsset` method by passing the asset number as the parameter. The Siebel quote is converted to order by invoking `convertSiebelQuoteToOrder` method. The commerce item is extracted from the order and product configuration instance (PCI) is created with it by invoking the `createPCIFromCommerceItem` method by passing commerce item as parameter.

The method completes by performing a redirect to the success URL returned by `UIManager`'s `getReconfigureSuccessURL` method which takes the product configuration instance as parameter.

Output

A success url string

retrieveLocale

private String retrieveLocale(OrderHolder pShoppingCart)

Input

pShoppingCart: shopping cart object

Description

This method is used to retrieve the locale from the shopping cart. It retrieves the value of the property named "locale" from the `ShoppingCart`'s `getProfile`.

Output

Locale string of the shopping cart

retrieveProfileId

private String retrieveProfileId(OrderHolder pShoppingCart)

Input

pShoppingCart: shopping cart object

Description

This method is used to retrieve the profile id from the shopping cart. It retrieves the value of the property named "Id" from the `ShoppingCart`'s `getProfile`.

Output

Profile id

upgradeAsset

public String upgradeAsset(final OrderHolder shoppingCart, final String pAssetNumber, final String pNewProductId, final UIManager pUIManager, final String pSiebelAccountID) throws Exception

Input

shoppingCart: shopping cart object
pAssetNumber: id of the asset
pNewProductId: id of new promotion
pUIManager: ui manager object
pSiebelAccountID: Siebel account Id of the logged in user

Description

This method is used to upgrade a promotion asset to another promotion. It first retrieves the quote for asset upgradation from Siebel which contains the quote items of both current asset and target promotion by invoking getSiebelQuoteForAssetUpgradation method by passing the asset number, active document id, target promotion id, Siebel account id. The Siebel quote is converted to Order by invoking convertSiebelQuoteToOrder method. The commerce item of the target promotion is extracted from the order and product configuration instance (PCI) is created with it by invoking the createPCIFromCommerceItem method by passing the commerce item as parameter.

The method completes by performing a redirect to the success URL returned by UIManager's getReconfigureSuccessURL method which takes the product configuration instance as parameter.

Output

A success url string

getSiebelQuoteForAssetUpgradation

public Quote getSiebelQuoteForAssetUpgradation(final String pAssetNumber, final String pActiveDocumentId, final String pNewProductId, final String pSiebelAccountID) throws Exception

Input

pAssetNumber: id of the asset
pActiveDocumentId: Id representing the current active quote
pNewProductId: id of new promotion
pSiebelAccountID: Siebel account Id of the logged in user

Description

This method is used to retrieve the quote for asset upgradation from the Siebel. It delegates the work to SiebelAssetTools's getSiebelQuoteForAssetUpgradation method by passing asset number, active document id, target promotion id, Siebel account id as parameters.

Output

Quote for the asset upgradation

checkAboApplicability

public String checkAboApplicability(final String pAssetNumber)

Input

pAssetNumber: id of the asset

Description

This method checks if the existing order already contains any upgrade or modify request for the given asset. It delegates the work to SiebelAssetTools's checkAboapplicability method by passing the asset number and existing order as parameter.

Output

Null string if ABO is not initiated for the asset else error message string

SiebelAssetTools

This section explain in detail the Siebel asset tools class and component

SiebelAssetTools contains helper methods for interacting with Siebel

SiebelAssetTools Component

The SiebelAssetTools component is defined as follows

\$class=atg.siebel.asset.SiebelAssetTools

\$scope=global

webServiceHelper=/atg/siebel/integration/WebServiceHelper

catalogTools=/atg/commerce/catalog/CatalogTools

Location:

atg/siebel/asset/SiebelAssetTools

SiebelAssetTools Class

This is underlying class of SiebelAssetTools component. This contains the methods to which interacts with Siebel for Asset related operations

atg.siebel.asset.SiebelAssetTools

Class Declaration

public class SiebelAssetTools extends GenericService

Class Data

The class contains the following data:

1. Web service helper (a reference to the WebServiceHelper component)
2. Catalog tools (a reference to the SiebelCatalogTools component)
3. Promotion relationship descriptor (the value of product class item descriptor name)

Class General Implementation

The class contains the following methods

getSiebelQuoteForAsset

public Quote getSiebelQuoteForAsset(final String pAssetNumber, final String pActiveDocumentId) throws Exception

Input

pAssetNumber: id of the asset

pActiveDocumentID: Id representing the current active quote

Description

This method is used to retrieve the Siebel quote for the given asset number by invoking the ModifyAssetToQuote web service. The asset number is added to the ModifyAssetToQuote request and the response contains a quote, which in turn is contains a list of quote items.

Output

Quote for the asset modification

removeQuoteItem

public void removeQuoteItem(final List<SiebelCommerceltem> pSblCommerceltem)

Input

pSblCommerceltem: List of Siebel commerce Item

Description

This method is used to remove a quote item from the Siebel quote by invoking the QuoteWebService web service. The delete quote item request is created by invoking the createDeleteQuoteItem method.

createDeleteQuoteItemInput

private DeleteQuoteItemInput createDeleteQuoteItemInput(final List<SiebelCommerceltem> pSblCommerceltems)

Input

pSblCommerceltem: List of Siebel commerce Item

Description

This method is used to create the web service request for the DeleteQuoteItem web service call. It creates the quote items from the commerce items by invoking the createQuoteItemsFromCommerceItem method by passing the commerce items as parameter. The list of quote items is set to the request object.

Output

DeleteQuoteItemInput object

createQuoteItemsFromCommerceItem

private QuoteItem createQuoteItemsFromCommerceItem(final SiebelCommerceItem sbCommerceItem)

Input

SiebelCommerceItem: Siebel commerce Item

Description

This method is used to create the quote items with the given Siebel commerce items.

Output

QuoteItem created from SiebelCommerceItem

getSiebelQuoteForAssetUpgradation

public Quote getSiebelQuoteForAssetUpgradation(final String pAssetNumber, final String pActiveDocumentId, final String pNewProductId, final String pSiebelAccountId) throws Exception

Input

pAssetNumber: id of the asset
pActiveDocumentId: Id representing the current active quote
pNewProductId: id of new promotion
pSiebelAccountID: Siebel account Id of the logged in user

Description

This method is used to retrieve the quote for asset upgradation from Siebel.

Output

Quote for upgrade promotion

populateUpgradePromotions

protected void populateUpgradePromotions(SiebelAsset pAsset) throws RepositoryException

Input

pAsset: asset object

Description

This method is used to retrieve the quote for asset upgradation from Siebel.

checkAboapplicability

public String checkAboApplicability(final String pAssetNumber, final Order pOrder)

Input

pAssetNumber: id of the asset
pOrder: current order object

Description

Checks if there is already an item in the current cart with upgrade/modify request for the asset

Output

Null string if ABO is not initiated for the asset else error message string

SiebelOrderTools Extensions

This section explains in detail the changes that have been made in Siebel order tools class. The methods in this class generally handle adding, deleting, updating items from the order. It also handles the conversation between the Siebel quote format and the Oracle Commerce order format. (i.e quote item in Siebel and commerce item in oracle commerce)

SiebelOrderTools Class Extensions

The following methods are added in SiebelOrderTools for the ABO

setBillingProfileIdToQuote

private void setBillingProfileIdToQuote(Order pOrder, Quote siebelQuote, RepositoryItem profileItem)

Input

pOrder: current order object
siebelQuote: Quote object
profileItem: user profile object

Description

This method is used to set the billing profile id to the quote. It first retrieves the siebelAccountPrimaryBillingProfileId property value from the order's payment group. If the value is null, it retrieves the DefaultCreditCard value from the profile.

retrieveQuoteNumber

private String retrieveQuoteNumber(Order pOrder)

Input

pOrder: current order object

Description

This method is used to retrieve the quote number from the order. It retrieves the value of quote number from the order and if the value is null, it uses the order id.

Output

A string representing the quote number

isPartOfNewProduct

*protected boolean isPartOfNewProduct(QuoteItem pQuoteItem,
String pNewProductId)*

Input

pQuoteItem: QuoteItem object
pNewProductId: Id of the product

Description

This method is used to check if the product id specified is same as the product present in the given quote item or the product id specified is same as the root product of the given quote item. It returns true if both the above conditions are true.

Output

true, if the pQuoteItem represents the pNewProductId else false
