

About Impex File

- Impex file is used to insert data to items. In Hadoop Every DataOperations like Modify Existing data or insert the new data or remove the data through the impex file only.
- For Each Operation have Specific Syntaxes. These are listed below

1) INSERT_UPDATE

To insert data to item if already data have that item it replaces old data with new data

2) UPDATE

It only replaces old data with new data

3) REMOVE

It Removes data values of item

In Impex Starting we mention the macro. Macro is nothing but a reusable component. It means once we declare macro in starting of impex file that can be used anywhere in impex file. It is denoted by Dollar symbol (\$)

Ex:

\$productCatalog=b2ctelcoProductCatalog

so we can use \$productCatalog in place of b2ctelcoProductCatalog in entire impex

- After completing declaring Macro, declare the Header for item. Header syntax is given below

CommandName Itemtype; ColumnName; ColumnName; ColumnName

- Observe above syntax. Every column is separated by **;(Semicolon)** and Command followed by Item type

Ex: INSERT_UPDATE Customer;uid[unique=true];groups

Note: here unique is true means it only allows unique values

- After declaring the header, give the data values corresponding columns. While writing the data values start with **;(semicolon)**. Like columns every data values are separated by Semicolon. If you don't give the values to column, leave it empty

```
Ex:INSERT_UPDATE Customer ;uid[unique=true] ;groups
;testuser ;customergroup;
```

Navigation Bar Component

The hybris Commerce Accelerator offers customizable, top navigation and link management functionality. The customization is done through the WCMS components.

The Top Navigation menus on the Accelerator site are controlled through the configuration of the following CMS Components:

- **NavigationBarComponents**- These components represent sections of the Navigation Bar. Each section can have one**CMSLinkComponent**object and one**CMSNavigationNode**object considered to be the root node.
- **CMSNavigationNodes**- These components represent the structure of the navigation tree and have titles which are rendered in the drop down menu. Each structure can have many**CMSLinkComponent** objects and many child**CMSNavigationNodes** objects.
- **CMSLinkComponents**- These components are rendered on the page and display at each point in the navigation tree.

The process for adding a new**NavigationBarComponent** object to a site to display the navigation menu is the following:

1. Create a**NavigationBarComponent** object.
2. Create a**CMSLinkComponent** object, give it a title and a URL, and assign it to the**NavigationBarComponent** object.
3. Create a root**CMSNavigationNode**object and add it to the**NavigationBarComponent** object.

4. Create as many children **CMSNavigationNodes** objects as required and add them to the root **CMSNavigationNode** object as children. Each child node creates an additional column in the menu.
5. Create as many **CMSLinkComponents** objects as required and add each one to a child node. These components appear as a list of links in the column.

These additional configuration attributes on the **NavigationBarComponent** object are available:

- **wrapAfter**-Controls the wrapping of links into additional columns. For example, wrap the link text after seven rows into another column.
- **styleClass**-Enables an additional CSS style to be appended to the navigation bar component. For example, the text can be right-justified or highlighted.
- **dropDownLayout**- Enables configuration of the justification of the **Drop Down Menu**. For example, the menus can appear on the righthand side of the page in order to improve the layout.

Examples

Two examples of customized top navigation are shown in the following figures:

Menu Link	Menu Link	Menu Link	Menu Link	Menu Link	Menu Link	Menu Link	Menu Link	Menu Link	Menu Link																								
			<table><tr><th>Menu Title</th><th>Menu Title</th><th>Menu Title</th></tr><tr><td>Link</td><td>Link</td><td>Link</td></tr><tr><td>Link</td><td>Link</td><td>Link</td></tr><tr><td>Link</td><td>Link</td><td>Link</td></tr><tr><td>Link</td><td>Link</td><td>Link</td></tr><tr><td>Link</td><td>Link</td><td>Link</td></tr><tr><td>Link</td><td>Link</td><td>Link</td></tr><tr><td>Link</td><td>Link</td><td>Link</td></tr></table>	Menu Title	Menu Title	Menu Title	Link	Link	Link	Link	Link	Link	Link	Link	Link	Link	Link	Link	Link	Link	Link	Link	Link	Link	Link	Link	Link						
Menu Title	Menu Title	Menu Title																															
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Figure: Example Top Navigation with Drop Down Layout on the Left

- This figure shows eleven **NavigationBarComponents** objects.

- The highlighted **NavigationBarComponent** root node has three child nodes.
- The first and third child nodes have seven **CMSLinkComponents** objects, the second child node has 14.
- The **wrapAfter** attribute is set to seven.

[illegible]

Figure: Example Top Navigation with Drop Down Layout on the Right

This figure shows a similar configuration with **dropDownLayout** set to **Right**.

Link Management

Links in the Top Navigation are **CMSLinkComponents** objects. These can be used to provide links to:

- A URL
- A Content page
- A Category
- A Product

You can use a URL directly to provide any internal links, such as a link to a category. If the **CMSLinkComponent** object has more than one link set, then the order of preference is listed as above. Links can also be configured to open in new tabs or new windows using the **target** attribute.

Task1:Create the Rates NavigationbarComponent



Step1:Create the Categories

Category.impex

ImpEx for Importing Categories into B2C Telco Store

Macros / Replacement Parameter definitions

\$productCatalog=b2ctelcoProductCatalog

\$productCatalogName=B2C Telco Product Catalog

\$catalogVersion=catalogversion(catalog(id[default=\$productCatalog]),version[default='Staged'])[unique=true,default=\$productCatalog:Staged]

\$supercategories=source(code, \$catalogVersion)[unique=true]

\$categories=target(code, \$catalogVersion)[unique=true]

ImpEx for Importing Categories into Telco Store

Insert Categories

INSERT_UPDATE Category;code[unique=true];allowedPrincipals(uid)[default='customergroup'];\$catalogVersion

;rates

;NationalRates

;InternationalRates

;RomingRates

;SpecialRateswithUKplan

Insert Category Structure

INSERT_UPDATE CategoryCategoryRelation;\$categories;\$supercategories;rates;1

;NationalRates ;rates

;InternationalRates ;rates

;RomingRates ;rates

;SpecialRateswithUKplan;rates

Step2:Create the Category_en file for localisation Names for Categories

Category_en.impex

```

*****This file is generated - please do not edit it. It
will be regenerated after every build.*****#
# ImpEx for Importing Categories into B2C Telco Store

# Macros / Replacement Parameter definitions
$productCatalog=b2ctelcoProductCatalog
$productCatalogName=B2C Telco Product Catalog
$catalogVersion=catalogversion(catalog(id[default=$productCatalog]),version[default='Staged'])[unique=true,default=$productCatalog:Staged]

# Language
$lang=en

# ImpEx for Importing Categories into telco Store (English)
UPDATE Category;code[unique=true];name[lang=$lang];description[lang=$lang];
$catalogVersion
;rates;Rates
;NationalRates;NationalRates;NationalRates
;InternationalRates;InternationalRates;InternationalRates
;RomingRates;RomingRates;RomingRates
;SpecialRateswithUKplan;SpecialRateswithUKplan;SpecialRateswithUKplan

```

Step3;Create the CmsLinkComponents,CMSNavigationNode ,NavigationBarComponent and NavigationBarCollectionComponent for Categories

CmsContent.impex
<pre> \$contentCatalog=b2ctelcoContentCatalog \$contentCatalogName=B2C Telco Content Catalog \$contentCV=catalogVersion(CatalogVersion.catalog(Catalog.id[default=\$contentCatalog]),CatalogVersion.version[default=Staged])[default=\$contentCatalog:Staged] \$productCatalog=b2ctelcoProductCatalog \$productCatalogName=B2C Telco Product Catalog \$productCV=catalogVersion(catalog(id[default=\$productCatalog]),version[default='Staged'])[unique=true,default=\$productCatalog:Staged] \$picture=media(code, \$contentCV); \$image=image(code, \$contentCV); \$media=media(code, \$contentCV); \$page=page(uid, \$contentCV); \$contentPage=contentPage(uid, \$contentCV); </pre>

```
$product=product(code, $productCV)
$category=category(code, $productCV)
$siteResource=jar:de.hybris.platform.b2ctelcostore.constants.B2ctelcostoreConstants&/b2ctelcostore/import/sampledData/contentCatalogs/$contentCatalog
$productResource=jar:de.hybris.platform.b2ctelcostore.constants.B2ctelcostoreConstants&/b2ctelcostore/import/sampledData/productCatalogs/$productCatalog
$jarResourceCms=jar:de.hybris.platform.b2ctelcostore.constants.B2ctelcostoreConstants&/b2ctelcostore/import/sampledData/cockpits/cmscockpit
$addonExtensionName=b2ctelcostorefront
```

```
# B2C Telco CMS Link Components
```

```
INSERT_UPDATE CMSLinkComponent;
```

```
$contentCV[unique=true];uid[unique=true];name;url;&linkRef;&componentRef;target(code)[default='sameWindow']
```

```
::RatesCategoryLink;Rates Category
```

```
Link;/c/rates;RatesCategoryLink;RatesCategoryLink
```

```
::NationalRatesCategoryLink;National Rates Category
```

```
Link;/c/NationalRates;NationalRatesCategoryLink;NationalRatesCategoryLink
```

```
::InternationalRatesCategoryLink;International Rates Category
```

```
Link;/c/InternationalRates;InternationalRatesCategoryLink;InternationalRatesCategoryLink
```

```
::RomingRatesLink;Roming Rates Category
```

```
Link;/c/RomingRates;RomingRatesLink;RomingRatesLink
```

```
::SpecialRateswithUKplanLink;Special Rates with UKplan Category
```

```
Link;/c/SpecialRateswithUKplan;SpecialRateswithUKplanLink;SpecialRateswithUKplanLink
```

```
INSERT_UPDATE NavigationBarComponent;
```

```
$contentCV[unique=true];uid[unique=true];name;wrapAfter;link(uid,
```

```
$contentCV);styleClass;&componentRef
```

```
::RatesBarComponent;Rates Bar
```

```
Component;10;RatesCategoryLink;;RatesBarComponent
```

```
# Navigation Bar Component
```

```
INSERT_UPDATE NavigationBarCollectionComponent;
```

```
$contentCV[unique=true];uid[unique=true];name;components(uid,
```

```
$contentCV);&componentRef
```

```
;;NavBarComponent;Navigation Bar Collection  
Component;RatesBarComponent,DevicesBarComponent,AccessoriesBarComponent  
,PlansBarComponent,AddOnsBarComponent,SBGProductsBarComponent;NavBar  
Component
```

```
# Navigation Bar Component  
INSERT_UPDATE NavigationBarComponent;  
$contentCV[unique=true];uid[unique=true];navigationNode(&nodeRef);dropDown  
Layout(code)  
;;RatesBarComponent;RatesNavNode
```

```
# B2C Telco CMS Navigation Nodes  
INSERT_UPDATE CMSNavigationNode;uid[unique=true];  
$contentCV[unique=true];name;parent(uid, $contentCV);links(&linkRef);&nodeRef  
;RatesNavNode;;Rates  
Category;B2cTelcoNavNode;RatesCategoryLink;RatesNavNode  
;RatesTypesNavNode;;Rates Types  
Links;RatesNavNode;NationalRatesCategoryLink,InternationalRatesCategoryLink,  
RomingRatesLink,SpecialRateswithUKplanLink;RatesTypesNavNode
```

Step4:Give the LocalisationNames for above Created LinksComponents

CmsContent_en.impex

```
##*****This file is generated - please do not edit it.  
It will be regenerated after every build.*****#
```

```
$contentCatalog=b2ctelcoContentCatalog  
$contentCV=catalogVersion(CatalogVersion.catalog(Catalog.id[default=$contentCat  
alog]),CatalogVersion.version[default=Staged])[default=$contentCatalog:Staged]  
$picture=media(code, $contentCV);  
$siteResource=jar:de.hybris.platform.b2ctelcostore.constants.B2ctelcostoreConstant  
s&/b2ctelcostore/import/sampledData/contentCatalogs/$contentCatalog
```

```
# Language  
$lang=en
```



```
# CMS Navigation Nodes
UPDATE CMSNavigationNode;
$contentCV[unique=true];uid[unique=true];title[lang=$lang]
;;B2cTelcoNavNode;"B2C Telco Site"

# B2C Telco CMS Link Components
UPDATE CMSLinkComponent;
$contentCV[unique=true];uid[unique=true];linkName[lang=$lang]
;;RatesCategoryLink;"Rates"
;;NationalRatesCategoryLink;"National Rates"
;;InternationalRatesCategoryLink;"International Rates"
;;RomingRatesLink;"Roming Rates"
;;SpecialRateswithUKplanLink;"Special Rates with UKplan"
```

- Import the above Impex files and Synchronise Staged to online then we will see the Rates Category in NavigationBarComponent.

Task2:-Ceating Products(ServicePlans) UK Landlines and UK SMS for NationalRates SubCategory

Note:Here we created Prodcuts as ServicePlans so you must have knowledge on TelecoAccelrator.Otherwise CreateStandard Products It is just idea for How to Create the Products .For Creating Standard products follow this link and observe the bellow mentioned impex files .


<https://wiki.hybris.com/pages/viewpage.action?pageId=294094420>

Top-up
Rates
Bundles/Plans
Offers
Help
Phone Shop
My Lycamobile

National rates
International Rates
Special rates with UK Plan
Roaming Rates

National rates

Great Rates
from Lycamobile

New to Lycamobile?
Join us today

Order FREE SIM

UK Landlines	UK Mobile	UK SMS	Internet
12p /min	Free* Lycamobile 19p Other mobile /min	Free* Lycamobile 19p Other mobile /SMS	9p /MB

*with any top up

Scroll Down

Step1:-Create ServicePlans (Products)

Products.impex

ImpEx for Importing Products into B2C Telco Store

Macros / Replacement Parameter definitions

\$productCatalog=b2ctelcoProductCatalog

\$productCatalogName=B2C Telco Product Catalog

\$catalogVersion=catalogversion(catalog(id[default=\$productCatalog]),version[default='Staged'])[unique=true,default=\$productCatalog:Staged]

\$onlineCatalogVersion=catalogversion(catalog(id[default=\$productCatalog]),version[default='Online'])[unique=true,default=\$productCatalog:Online]

\$supercategories=supercategories(code, \$catalogVersion)

\$baseProduct=baseProduct(code,\$catalogVersion)

\$approved=approvalstatus(code)[default='check']

ImpEx for Importing Products

Macros / Replacement Parameter definitions

\$solrIndexedTypeId=b2ctelcoProductType

\$solrIndexedType=indexedType(identifier[default=\$solrIndexedTypeId])

```
#Insert Service Plans (Plans)
INSERT_UPDATE ServicePlan; code[unique=true]; $supercategories;
manufacturerAID;subscriptionTerm(id);soldIndividually[default=true];unit(code)
[default=pieces];$approved;$catalogVersion
;UKlandlines;NationalRates;;annually_1>true
;UKsms;NationalRates;;annually_1
```

Step2:-Give Localisation names for Serviceplans

Products_en.impex

```
*****This file is generated - please do not edit it. It
will be regenerated after every build.*****#
# ImpEx template for Importing all Localisations for Products in the B2C Telco
Store

# Macros / Replacement Parameter definitions
$productCatalog=b2ctelcoProductCatalog
$productCatalogName=B2C Telco Product Catalog
$catalogVersion=catalogversion(catalog(id[default=$productCatalog]),version[default='Staged'])[unique=true,default=$productCatalog:Staged]

$lang=en

UPDATE Product;code[unique=true];name[lang=en];description[lang=$lang];
$catalogVersion;summary[lang=$lang]
#Service Plans
;UKlandlines;UK landlines;Pay Monthly UKlandlines Plan: 12p/min (1 year);;Pay
Monthly UKlandlines Plan: 12p/min (1 year)
;UKsms ;UK SMS ;Pay Monthly UK SMS Plan: Free for lycamobile and
other 19p/min(1 year);;Pay Monthly UK SMS Plan: Free for lycamobile and other
19p/min(1 year)
```

Step3:-Give the prices for ServicePlans

ProductsPrice.Impex

```
# ImpEx for Importing B2C Telco Store Prices
#% impex.setLocale( Locale.GERMAN );
```

```

$productCatalog=b2ctelcoProductCatalog
$catalogVersion=catalogversion(catalog(id[default=$productCatalog]),version[default='Staged'])[unique=true,default='$productCatalog:Staged']
$taxGroup=Europe1PriceFactory_PTG(code)[default=us-sales-tax-full]

# Set product approval status to Approved only for those products that have prices.
$approved=approvalstatus(code)[default='approved']

# ImpEx for Importing Prices for SBG products
#% impex.setLocale( Locale.GERMAN );

$billingEvent=billingEvent(code)[default='onfirstbill']


# ImpEx for Importing Prices for Telco products
$prices=Europe1prices[translator=de.hybris.platform.europe1.jalo.impex.Europe1PricesTranslator]
$europe1pricefactory_ptg=Europe1PriceFactory_PTG(code)[default=us-sales-tax-full]

# Set product approval status to Approved only for those products that have prices.
$approved=approvalstatus(code)[default='approved']
$billingEvent=billingEvent(code)[default='onfirstbill']


INSERT_UPDATE SubscriptionPricePlan;&pricePlan;product(code,
$catalogVersion)[unique=true];$catalogVersion;currency(isocode)
[default=USD,unique=true];unit(code)[default=pieces]
;pricePlan_UKlandlines;                UKlandlines;
;pricePlan_UKsms;                        UKsms;


INSERT_UPDATE SubscriptionProduct;code[unique=true];$catalogVersion;
$approved;$europe1pricefactory_ptg
;UKlandlines;
;UKsms;


INSERT_UPDATE
RecurringChargeEntry;id[unique=true];subscriptionPricePlanRecurring(&pricePlan)
;price;cycleStart;cycleEnd;$catalogVersion
;RCE_UKlandlines_MONTHLY;                pricePlan_UKlandlines;                39;1;

```

```

;RCE_UKsms_MONTHLY;           pricePlan_UKsms;           29;1;

INSERT_UPDATE
OneTimeChargeEntry;id[unique=true];subscriptionPricePlanOneTime(&pricePlan);
price;$catalogVersion;$billingEvent
;OTCE_UKlandlines_FIRST_BILL;   pricePlan_UKlandlines;   9;
;OTCE_UKsms_FIRST_BILL;         pricePlan_UKsms;         19;

```

Step4:- Create the Productprice_en .impex

ProductsPrice_en.impex

```

# ImpEx for Importing SBG Prices (English)

# Macros / Replacement Parameter definitions
$productCatalog=b2ctelcoProductCatalog
$catalogVersion=catalogversion(catalog(id[default=$productCatalog]),version[default=Staged])[unique=true,default=$productCatalog:Staged]
$lang=en
UPDATE SubscriptionPricePlan;name;product(code, $catalogVersion)
[unique=true];$catalogVersion;currency(isocode)[default=USD,unique=true]
;pricePlan_UKlandlines;           UKlandlines;
;pricePlan_UKsms;                 UKsms;
UPDATE OneTimeChargeEntry;id[unique=true];name[lang=$lang];$catalogVersion
;OTCE_UKlandlines_FIRST_BILL;     Activation Fee
;OTCE_UKsms_FIRST_BILL;           Activation Fee

```

Step5:-Create the Stocklevels for the Serviceplans

ProductStocklevel.impex

```

# ImpEx for Importing Products stock levels into B2C Telco Store

# Macros / Replacement Parameter definitions
$productCatalog=b2ctelcoProductCatalog
$productCatalogName=B2C Telco Product Catalog
$catalogVersion=catalogversion(catalog(id[default=$productCatalog]),version[default='Staged'])[unique=true,default=$productCatalog:Staged]
$vendor=b2ctel

```

```
INSERT_UPDATE Vendor;code[unique=true]
;$vendor
```

ImpEx for Importing Telco Products Stock Levels and Warehouses

```
INSERT_UPDATE
Warehouse;code[unique=true];name[lang=en];vendor(code);default
;warehouse_telco;Warehouse Telco;$vendor;true
```

Attention: default stockStatus is here forceInStock and so different to the products imported before

```
INSERT_UPDATE
StockLevel;productCode[unique=true];available[default=10];warehouse(code)
[unique=true,default=warehouse_telco];inStockStatus(code)
[default=forceInStock];maxPreOrder[default=0];maxStockLevelHistoryCount[defau
lt=-1];overSelling[default=0];preOrder[default=0];reserved[default=0]
;UKlandlines;
;UKsms;
```

```
INSERT_UPDATE
Product;code[unique=true];stockLevels(productCode,warehouse(code));vendors(cod
e)[default=$vendor];$catalogVersion
;UKlandlines;UKlandlines:warehouse_telco
;UKsms;    UKsms:warehouse_telco
```

Step6:- Create the Media For the Serviceplans

ProductMedia.impex

ImpEx for Importing Product Media into B2C Telco Store

Macros / Replacement Parameter definitions

```
$productCatalog=b2ctelcoProductCatalog
$catalogVersion=catalogversion(catalog(id[default=$productCatalog]),version[defau
lt='Staged'])[unique=true,default=$productCatalog:Staged]
$thumbnail=thumbnail(code, $catalogVersion)
$picture=picture(code, $catalogVersion)
$thumbnails=thumbnails(code, $catalogVersion)
$detail=detail(code, $catalogVersion)
```

```

$normal=normal(code, $catalogVersion)
$others=others(code, $catalogVersion)
$data_sheet=data_sheet(code, $catalogVersion)
$medias=medias(code, $catalogVersion)
$galleryImages=galleryImages(qualifier, $catalogVersion)
$siteResource=jar:de.hybris.platform.b2ctelcostore.constants.B2ctelcostoreConstants&/b2ctelcostore/import/sampledData/productCatalogs/$productCatalog

# ImPex for Importing TV-Channel Product Media

# Macros / Replacement Parameter definitions
INSERT_UPDATE
Media;mediaFormat(qualifier);code[unique=true];@media[translator=de.hybris.platform.impex.jalo.media.MediaDataTranslator];mime[default='image/jpg'];
$catalogVersion;folder(qualifier)[forceWrite=true]
;1200Wx1200H;/1200Wx1200H/basic_plan.jpg;
$siteResource/images/1200Wx1200H/basic_plan.jpg;;;images
;515Wx515H;/515Wx515H/basic_plan.jpg;
$siteResource/images/515Wx515H/basic_plan.jpg;;;images
;300Wx300H;/300Wx300H/basic_plan.jpg;
$siteResource/images/300Wx300H/basic_plan.jpg;;;images
;96Wx96H;/96Wx96H/basic_plan.jpg;
$siteResource/images/96Wx96H/basic_plan.jpg;;;images
;65Wx65H;/65Wx65H/basic_plan.jpg;
$siteResource/images/65Wx65H/basic_plan.jpg;;;images
;30Wx30H;/30Wx30H/basic_plan.jpg;
$siteResource/images/30Wx30H/basic_plan.jpg;;;images

INSERT_UPDATE MediaContainer;qualifier[unique=true];$medias;$catalogVersion
;
basic_plan;/1200Wx1200H/basic_plan.jpg;/515Wx515H/basic_plan.jpg;/300Wx300H/basic_plan.jpg;/96Wx96H/basic_plan.jpg;/65Wx65H/basic_plan.jpg;/30Wx30H/basic_plan.jpg

UPDATE Product;code[unique=true];$picture;$thumbnail;$detail;$normal;
$thumbnails;$others;$galleryImages;$catalogVersion
;
UKlandlines;/300Wx300H/basic_plan.jpg;/96Wx96H/basic_plan.jpg;/1200Wx1200H/basic_plan.jpg;/300Wx300H/basic_plan.jpg;/96Wx96H/basic_plan.jpg;/515Wx515H/basic_plan.jpg;/300Wx300H/basic_plan.jpg;/96Wx96H/basic_plan.jpg;/65Wx65H/basic_plan.jpg;/30Wx30H/basic_plan.jpg;basic_plan
;
UKsms;/300Wx300H/basic_plan.jpg;/96Wx96H/basic_plan.jpg;/1200Wx1200H/basic_plan.jpg;/300Wx300H/basic_plan.jpg;/96Wx96H/basic_plan.jpg;/515Wx515H/ba

```

sic_plan.jpg,/300Wx300H/basic_plan.jpg,/96Wx96H/basic_plan.jpg,/65Wx65H/basic_plan.jpg,/30Wx30H/basic_plan.jpg;basic_plan

After importing the above impex Synchronise Catalog Staged to online See the products in your site.