

# How-To Guide Regional & Location Data Relationship to Broadcasting

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Author: Hadhi Jawahir

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# Introduction

The purpose of this guide is to provide a foundational understanding of how to configure regional and locational entities and configure broadcasts for them. This will ultimately result in the distribution of data specific only to that region or location.

Some entities have region or location-based configurations such as product, menu, roles and tender. These entities would have been configured only for a particular region or location. However, when the usual broadcasts are done, the entities that are not part of that region or location are also broadcasted, which in turn broadcasts a large amount of unnecessary data to that device.

An example scenario is described below:

Consider a parent Region configured as All Region, with UK and US as its' Child Regions. Tenders are configured separately in the Tender Maintenance for the UK and US regions. The requirement is to set up a new device in the UK region and have the Tenders that are configured only for the UK region to be broadcasted to that device. However, this cannot be done by broadcasting the Tender entity to the new device in the UK region, as this will also result in broadcasting all the US tender configurations, that are unnecessary data for the device in the UK region.

Hence, for this purpose, there is an entity called “**Tender by Region**” which makes sure that the entities are distributed only to the particular regions. This entity can be accessed via the Predefined Broadcast Maintenance Details tab. There are many such entities for both Region and Location, and these are listed and shown in the “Predefined Broadcast Configuration” section. This way broadcasts can be sent to All Regions or Stores in the estate, but will only impact the respective regions or locations to which the entities have been configured. This allows distributing data throughout the estate in a more efficient manner.

There are two aspects in configuration for Regional Broadcasting:

1. Configuring the necessary Regional/Locational entities appropriately.
2. Configuring the predefined broadcast to send the regional broadcasts successfully.

Note: Not all entities support Regional Broadcasting, and only the “Regional Entity Configuration” and “Locational Entity Configuration” sections cover the entities that support Regional Broadcasting.

Following are the **Regional Entities** and where they can be configured, to successfully Broadcast by Region using the Predefined Broadcast:

Regional Entity	Configuration
Location by Region	Location Maintenance
Menu by Region	Group Maintenance > Menu Group
Option Set by Region	Attribute / Option Set Maintenance
Product by Region	Product Maintenance > General Tab > Product Sale Region Tab



Product Attribute by Region	Attribute / Option Set Config Maintenance
Product Price by Region	Group Maintenance > Product Price Group
Product Product Group by Region	Product Maintenance > General Tab > Product Group Tab
Promotion by Region	Promotion Maintenance
Reason by Region	Reason Maintenance
Regional Product by Region	Regional Product Maintenance
Role by Region	User Role Maintenance
Selling Code by Region	Product Maintenance > General Tab > Selling Codes Tab
Tender by Region	Tender Maintenance

Following are the **Locational Entities** and where they can be configured to successfully Broadcast by Location using the Predefined Broadcast:

Locational Entity	Configuration
Product Price by Location	Product Price Maintenance
User by Location	User Maintenance

## Overview

This guide will cover the configuration for the following:

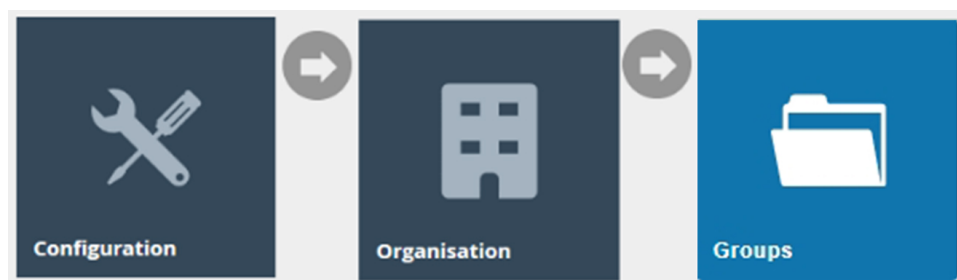
- **Regional Entity Configuration** – Allows configuring regional entities for regional broadcasting.
- **Locational Entity Configuration** – Allows configuring locational entities for locational broadcasting.
- **Data Distribution for Regional Broadcasting** – Provides understanding of how regional and locational data is handled during broadcasting.

## Regional Entity Configuration

This section describes the regional entities that can be configured and their functionality ensuring that Broadcast by Region is successfully executed.

As the initial step, set up regions against the organisation. Group Hierarchy Maintenance application is used to set up regions.

The Group Hierarchy maintenance application can be accessed through:  
Configuration -> Organisation -> Groups




Set the filter of the **Group Type** to **Region** and click on the **Edit icon** set against **All Regions** field as shown below:

Group Hierarchy Maintenance

Group Type: Region (dropdown) | Hierarchy ID: All (dropdown) | Starts With: (dropdown) | Hide

Apply Filters | Reset Filters

	Hierarchy ID	Name
	All	All Regions

Page 1 of 1 | Page Size: 10 | Export Region Hierarchy

This will allow adding, editing and removing regions to manage regions as required.

Group Hierarchy Maintenance

Save | Cancel

You are editing Region hierarchy ID: All

All - All Regions

- UK - United Kingdom
- US - United States

Add Region | Edit Region

Once this is done, most of the Regional Entities can be configured as per the regional hierarchy defined above.

Following are the **Regional Entities** and where they can be configured:

Regional Entity	Configuration
Location by Region	Location Maintenance > General Tab > General Tab
Menu by Region	Group Maintenance > Menu Group
Option Set by Region	Attribute / Option Set Maintenance
Product by Region	Product Maintenance > General Tab > Product Sale Region Tab
Product Attribute by Region	Attribute / Option Set Config Maintenance
Product Price by Region	Group Maintenance > Product Price Group
Product Product Group by Region	Product Maintenance > General Tab > Product Group Tab
Promotion by Region	Promotion Maintenance
Reason by Region	Reason Maintenance
Regional Product by Region	Regional Product Maintenance
Role by Region	User Role Maintenance

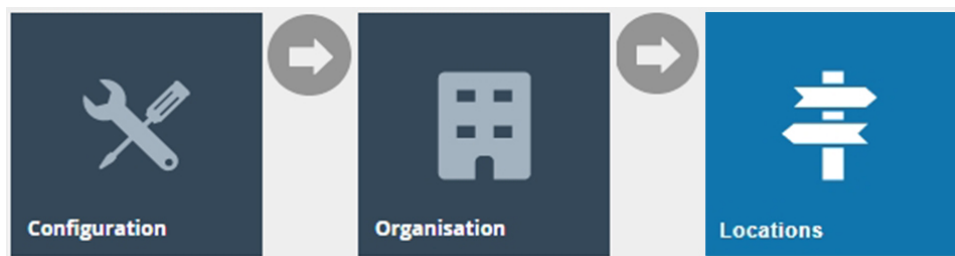
Selling Code by Region	Product Maintenance > General Tab > Selling Codes Tab
Tender by Region	Tender Maintenance

## Location By Region

Regional Broadcasting for the Location will be done based on how the Region is set in the Location entity. When configuring a location, the region can be specified for each of the locations in the General Sub-Tab. If no region is set against the location, the Location by Region entity will not broadcast as required.

## Configuration

The location maintenance application can be accessed through:  
Configuration -> Organisation -> Locations



**Edit** the desired **Location** and make sure that the appropriate **Region** is selected in the **Region** field as shown below:

Location Maintenance

Save Cancel

You are editing store ID: 0001, based upon template: UK Store Template

General Address Purging Day End Email Nearest Stores Cash Management Receipt Display MM Groups MM Group Price Attributes Collection Points

General Ordering Inventory Tax Currency Security Customer

Is Live ☒

Name\* UK Hertford

Company ID

Region\* United Kingdom

Locale English (UK)

Document Code

VAT Number

Use Template Value

**Note:** If the region is set by the Location template, make sure to navigate to the Location Template Maintenance and make the changes to the Region field for the appropriate Location Template.

## XML

Following is the **XML** of the above UK Hertford Store Location Entity:

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:store xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-open.org/ns/bpe
  <retail:description>UK Hertford</retail:description>
  <retail:localeId variant="" country="GB">en</retail:localeId>
  <retail:locationType>store</retail:locationType>
  <retail:startDate>2021-02-11T00:00:00Z</retail:startDate>
  <retail:systemUserId></retail:systemUserId>
  <retail:locationAddress>
    <retail:countryCodeId>GBR</retail:countryCodeId>
    <retail:organisation>Enactor</retail:organisation>
    <retail:typeId></retail:typeId>
    <retail:email>info@enactor.co.uk</retail:email>
    <retail:phone1>01992 500881</retail:phone1>
    <retail:postCode>SG14 1PB</retail:postCode>
    <retail:street1>Enactor House</retail:street1>
    <retail:street2>Bluecoats</retail:street2>
    <retail:town>Hertford</retail:town>
    <retail:referenceName>locationAddress</retail:referenceName>
    <retail:isTemplate>false</retail:isTemplate>
  </retail:locationAddress>
  <retail:locationId>0001</retail:locationId>
  <retail:emailConfiguration>
    <retail:locationId>0001</retail:locationId>
    <retail:allowFallback>false</retail:allowFallback>
    <retail:referenceName>emailConfiguration</retail:referenceName>
    <retail:isTemplate>false</retail:isTemplate>
  </retail:emailConfiguration>
  <retail:purgeDetails>
    <retail:entityPurgeAges/>
    <retail:functionPurgeAges/>
    <retail:isTemplate>false</retail:isTemplate>
  </retail:purgeDetails>
  <retail:groupId groupHierarchyId="All" groupTypeId="region">UK</retail:groupId>
  <retail:vatNumber></retail:vatNumber>
  <retail:isLive>true</retail:isLive>
  <retail:templateKey>STORE_TEMPLATE_UK</retail:templateKey>
  <retail:isTemplate>false</retail:isTemplate>

  <retail:branchNumber>1</retail:branchNumber>
  <retail:nearestStores>0003</retail:nearestStores>
  <retail:trailerLines>Thank you for shopping at Enactor</retail:trailerLines>
  <retail:trailerLinesCentred>true</retail:trailerLinesCentred>
  <retail:dayEnd>

```

It is the **groupId** property which defines the region in this Location entity.

## Menu by Region

When configuring a menu for regional broadcasting, it is the menu group that specifies the region to which the menu belongs. There are two configuration steps to set up menus for specific regions:

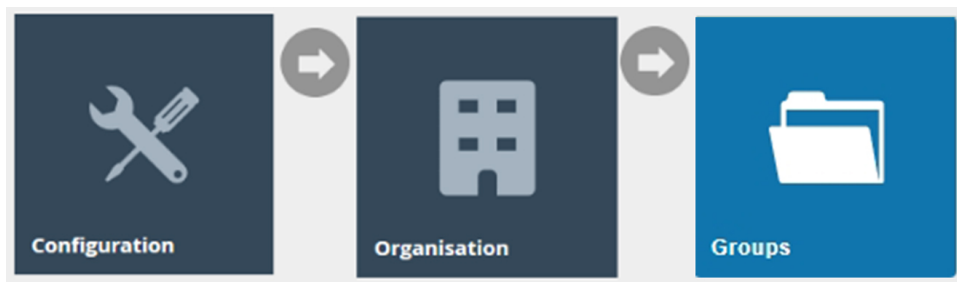
1. A menu group should first be configured for the region as required.
2. A menu should be configured for that configured menu group that has a configured region to it.

This way, the Menu by Region entity can be used to successfully broadcast the menus that are specific to the corresponding regions.

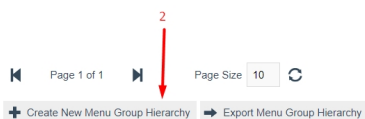
## Configuration

First create the Menu Group to specify a region to it. Group Hierarchy Maintenance application is used to set up menu groups.

The Group Hierarchy maintenance application can be accessed through:  
Configuration -> Organisation -> Groups



Set the filter of the **Group Type** to **Menu Group** and then click on **Create New Menu Group Hierarchy** as shown below:

The screenshot shows the 'Group Hierarchy Maintenance' application window. At the top, there's a header bar with a title and window controls. Below it, there are filter controls: 'Group Type' is set to 'Menu Group' (indicated by a red box and a red '1'), and 'Hierarchy ID' is set to 'Starts With'. There are 'Apply Filters' and 'Reset Filters' buttons. Below the filters is a table with columns: 'Hierarchy ID', 'Name', and 'Region'. The table has one row with 'All', 'Default', and 'All Regions'. At the bottom, there are two buttons: '+ Create New Menu Group Hierarchy' and 'Export Menu Group Hierarchy'.

Enter a unique **Hierarchy ID** for the Menu Group Hierarchy. The ID can be alphanumeric and contain a maximum of 20 characters.

Select the desired Region for the Menu Group from the **Region** drop-down.

**Note:** The Region dropdown consists of the Regions that are already configured in the Group Hierarchy Maintenance.

## Group Hierarchy Maintenance

Please enter an ID for the new Menu Group hierarchy.

Hierarchy ID

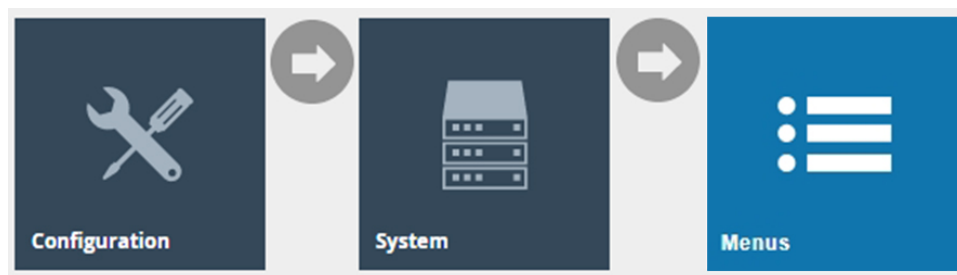
Region

[← Back](#) [+ Create](#)

The above example shows how a Menu Group has been created for the United Kingdom Region.

Once the Menu Group has been created, a Menu can be created for this particular Menu Group.

The Menu maintenance application can be accessed through:  
Configuration -> System -> Menus



To create a new menu, select **Create New Menu** on the Menu Maintenance page.

Menu Maintenance

Menu Set:   
Role:   
Menu Group:   
Locale:   
Menu ID:

[Apply Filters](#) [Reset Filters](#)

	Menu Set	Role	Menu Group	Menu ID	Name
	POS	Sales Assistant	StandardNolabelPOS	ADMIN	ADMIN
	POS	Administrator	StandardNolabelPOS	ADMIN	ADMIN
	POS	Administrator	StandardNolabelPOS	ADMIN	ADMIN
	POS	Sales Assistant	Default Standard POS	ADMIN	ADMIN
	POS	Administrator	Default Standard POS	ADMIN	ADMIN
	POS	Sales Assistant	Default Standard POS	ADMIN	ADMIN
	POS	Sales Assistant	Default Standard POS	CREDIT_TENDER	CREDIT_TENDER

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[+ Create New Menu](#) [Export Menu](#)

Make sure to set the Menu Group from the dropdown appropriately.

**Note:** The Menu Group dropdown consists of the Menu Groups that are already configured in the Group Hierarchy Maintenance.

Following is an example of a new Sale menu created for the above configured Menu Group:

Menu Maintenance ? || x

Please enter an ID for the new menu.

Menu Set	POS
Role	Sales Assistant
Menu Group	UK_MENU_GROUP
Locale	English (UK)
Menu ID	Sale

← Back
+ Create

This way menus can be configured enabling the use of the Menu by Region entity, to successfully broadcast the menus that are specific to the corresponding regions.

## XML

The **XML** of the above UK\_MENU\_GROUP Menu Group Entity is shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:menuGroup xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-op
  <retail:groupId>UK_MENU_GROUP</retail:groupId>
  <retail:groupId>menuGroup</retail:groupId>
  <retail:groupHierarchyId>UK_MENU_GROUP</retail:groupHierarchyId>
  <retail:level>1</retail:level>
  <retail:level1GroupId>UK_MENU_GROUP</retail:level1GroupId>
  <retail:name>UK_MENU_GROUP</retail:name>
  <retail:localisedName>
    <core:string variant="" language="en" country="GB">UK_MENU_GROUP</core:string>
  </retail:localisedName>
  <retail:variantGroupId>UK</retail:variantGroupId>
  <retail:variantGroupId>region</retail:variantGroupId>
  <retail:variantGroupHierarchyId>All</retail:variantGroupHierarchyId>
  <retail:variantLevel>2</retail:variantLevel>
</retail:menuGroup>

</Batch>
```

It is the **variantGroupId** property which defines the region in this Menu Group entity.

The **XML** of the above Sale Menu Entity is shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:menu menuCategoryId="RETAIL" menuType="TREE" name="SALE" menuId="SALE" xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-open.org/ns/bpel4people/ws-humantask/api/200808:
  <retail:menuSetId>POS</retail:menuSetId>
  <retail:roleId>
    <retail:roleId>SALESASSIST_UK</retail:roleId>
    <retail:regionId groupHierarchyId="All" groupId="region">UK</retail:regionId>
  </retail:roleId>
  <retail:menuGroupId variantGroupHierarchyId="All" variantGroupId="UK" variantGroupTypeId="region" groupHierarchyId="UK_MENU_GROUP" groupId="menuGroup">UK_MENU_GROUP</retail:menuGroupId>
  <retail:menuDefaultOptionId groupId="menuGroup"/>
  <retail:localeId variant="" country="GB">en</retail:localeId>
  <retail:buttonMenuItem event="SellProduct" position="1" messageBase="Pos/Sale/SaleMessages" messageId="SELL_ITEM_BUTTON" id="SellProduct"/>
</retail:menu>

</Batch>
```

It is the **variantGroupId** property (derived from the menu group entity) which defines the region in this Menu entity.

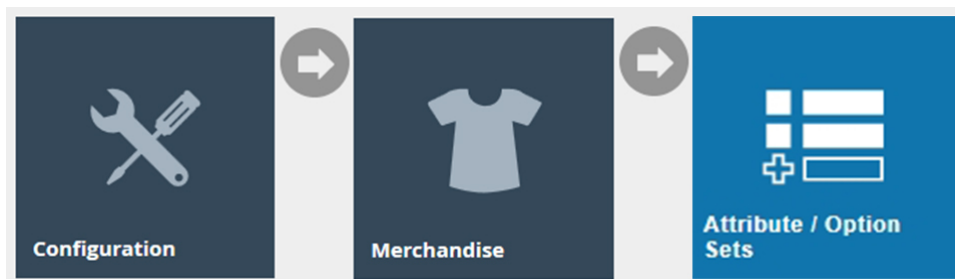
## Option Set by Region

Regional Broadcasting for an Option Set is done based on how the Region is set in the Option Set entity. When configuring an option set, the region can be specified for each of the option sets at the time of creating it. This way, the Option Set by Region entity can be used to successfully broadcast the option sets that are specific to the corresponding regions.

## Configuration

First create the Option Set to specify a region to it. Attribute / Option Set Maintenance application is used to set up Option Sets.

The Attribute / Option Set maintenance application can be accessed through:  
Configuration -> Merchandise -> Attribute / Option Sets



Set the filter of the **Type** to **Product Options** and click on **Create a New Option Set** as shown below:



Attribute / Option Set Maintenance













Attribute / Option Set ID Starts With

Name Starts With

Type Product Options 1

Region

Apply Filters Reset Filters

	Attribute / Option Set ID	Name	Type	Region
 	CURTAIN_ADDITIONAL_INFO	Curtain Additional Info	Product Options	UK
 	EXTENDED_WARRANTY	Extended Warranty	Product Options	US
 	HOME_INSTALLATION	Home Installation	Product Options	US
 	JEWELRY_WARRANTY	Jewelry Warranty	Product Options	US
 	LENS_THICKNESS	Lens Thickness	Product Options	All
 	LENS_TYPES	Lens Types	Product Options	All

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2 Create a new Option Set

Enter a unique **Attribute / Option Set ID** for the Option Set. The ID can be alphanumeric and contain a maximum of 20 characters.

Select the desired Region for the Option Set from the **Region** drop-down.

**Note:** The Region dropdown consists of the Regions that are already configured in the Group Hierarchy Maintenance.

### New Attribute / Option Set

Please enter the Attribute / Option Set ID, Type and Region:

Attribute / Option Set ID CURTAIN\_ADDITIONAL\_INFO

Type Product Options

Region United Kingdom

Back Create

The above example shows how an Option Set has been created for the United Kingdom Region. This way Option Sets can be configured enabling the use of the Option Set by Region entity, to successfully broadcast the option sets specific to the corresponding regions.

### XML

The **XML** of the above CURTAIN\_ADDITIONAL\_INFO Option Set Entity is shown below:

```

</Batch>

<retail:optionSet xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-open.org/hta/20060601/hta.xsd">
  <retail:name>Curtain Additional Info</retail:name>
  <retail:optionSetId>CURTAIN_ADDITIONAL_INFO</retail:optionSetId>
  <retail:options>
    <retail:textDataOption>
      <retail:optionId>CURTAIN_ADD_INFO</retail:optionId>
      <retail:name>Curtain Additional Info</retail:name>
      <retail:description>Please enter additional information:</retail:description>
      <retail:title/>
      <retail:subtitle/>
      <retail:multiline>true</retail:multiline>
    </retail:textDataOption>
  </retail:options>
  <retail:type>productOptionOptionSet</retail:type>
  <retail:lastUpdated>2022-02-11T07:59:46.703Z</retail:lastUpdated>
  <retail:groupId groupHierarchyId="All" groupId="region">UK</retail:groupId>
  <retail:prompt></retail:prompt>
  <retail:title/>
  <retail:subtitle/>
</retail:optionSet>

</Batch>

```

It is the **groupId** property which defines the region in this Option Set entity.

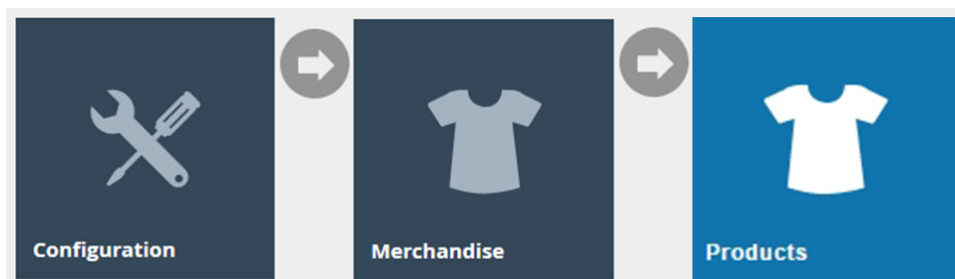
## Product by Region

Regional Broadcasting for a Product will be done based on how the Region is set in the Product entity. When configuring a Product, the Sale Region can be specified for each of the products in the Product Sale Region Tab of Product Maintenance. This way, the Product by Region entity can be used to successfully broadcast the products specific to the configured regions.

### Configuration

First configure the Product to specify a region to it. Product Maintenance application is used to configure products.

The Product maintenance application can be accessed through:  
Configuration -> Merchandise -> Products



Click on the edit icon of any product that the region needs to be specified, as shown below:

**Product Maintenance**

Product ID  
Starts With  
Product Type  
Brand  
Fascia  
Supplier  
Selling Code  
Starts With

Description  
Starts With  
Product Group  
MM Group  
Range  
Supplier Product ID  
Starts With

Apply Filters Reset Filters

00003	APPLE MacBook Pro 13.3"
0DQJQJ4	Tile Print Shorts
0DQJQJ4-11	Tile Print Shorts
0DQJQJ4-21	Tile Print Shorts
0DQJQJ4-31	Tile Print Shorts
0DQJQJ4-41	Tile Print Shorts

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Create a new Product Export Products

Navigate to the **General > Product Sale Region** Tab.

Select the desired region from the **Sale Regions** dropdown list and select **Add**.

**Note:** The Sale Regions dropdown consists of the Regions that are already configured in the Group Hierarchy Maintenance.

**Product Maintenance**

Save Cancel

You are editing Merchandise Product 00003 - APPLE MacBook Pro 13.3"

General Selling Options Alternative Tenders Tax Merchandise Prices Location Supplier Attributes Product Media

General Label Information Product Group **Product Sale Region** Selling Codes Product Lists

Sale Regions

United Kingdom

+ Add All Regions

The above example shows how a Product has been created for the United Kingdom Region. This way Products can be configured enabling the use of the Product by Region entity, to successfully broadcast the products specific to the corresponding regions.

**Note:** There is also an entity called **Product Sale by Region** which can also be configured the same way that Product by Region was configured above.

## XML

The **XML** of the above Product Sale Region Entity which was configured in the Product Maintenance is shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:productSaleRegion xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-open.org/ns/bpel4people/ws-humantask/api/200803"
  <retail:productId>00003</retail:productId>
  <retail:regionId groupHierarchyId="All" groupTypeId="region">UK</retail:regionId>
  <retail:saleRegionName/>
</retail:productSaleRegion>

</Batch>
```

It is the **regionId** property which defines the region in this Product Sale Region entity.

**Note:** A Product has a large amount of data and the XML that shows the Product Sale Region of the Product exists in the entity called Product Sale Region and not in the Product entity itself.

## Product Attribute by Region

When configuring a product attribute for regional broadcasting, it is the product attribute that specifies the region for which the product belongs to. There are two configuration steps to set up product attributes for specific regions:

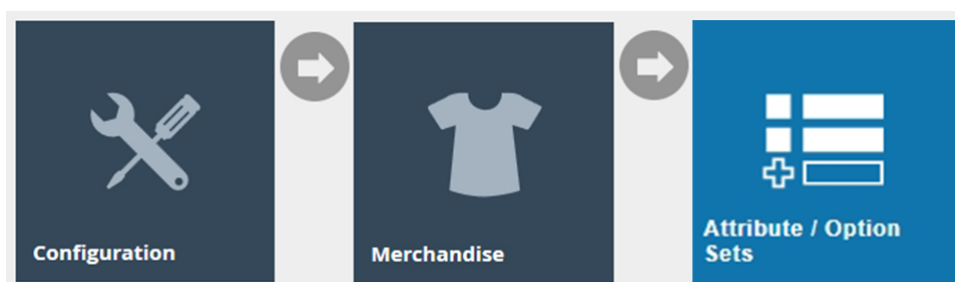
1. A price attribute should first be configured for the region as required.
2. A product should be configured for that configured price attribute which should have a configured region to it.

This way, the Product Attribute by Region entity can be used to successfully broadcast the product attributes specific to the corresponding regions.

## Configuration

First create the Product Attribute to specify a region to it. Attribute / Option Set Maintenance application is used to create product attributes.

The Attribute / Option Set maintenance application can be accessed through:  
Configuration -> Merchandise -> Attribute / Option Sets



Set the filter of the **Type** to **Product Attributes** and click on **Create a New Option Set** as shown below:

**Attribute / Option Set Maintenance**

Attribute / Option Set ID:  Starts With:

Name:  Starts With:

Type:  1

Region:

	Attribute / Option Set ID	Name	Type	Region
	stars_option_set	stars_option_set	Product Attributes	UK



Enter a unique **Attribute / Option Set ID** for the Product Attribute. The ID can be alphanumeric and contain a maximum of 20 characters.

Select the desired Region for the Product Attribute from the **Region** drop-down.

**Note:** The Region dropdown consists of the Regions that are already configured in the Group Hierarchy Maintenance.

### New Attribute / Option Set

Please enter the Attribute / Option Set ID, Type and Region:

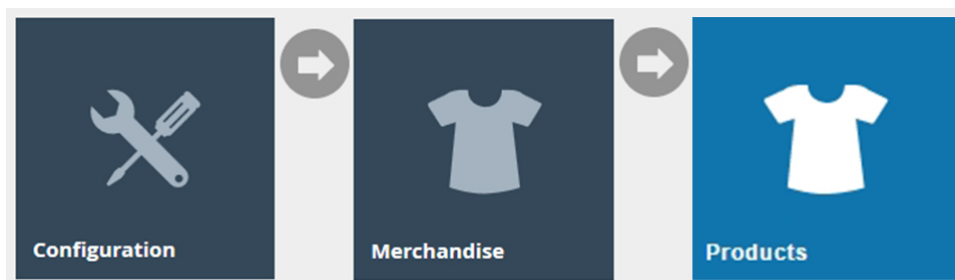
Attribute / Option Set ID:

Type:

Region:  2

Once the Product Attribute has been created, a Product can be configured for this particular Product Attribute.

The Product maintenance application can be accessed through:  
Configuration -> Merchandise -> Products



Click on the edit icon of any product that the product attribute needs to be specified, as shown below:

Navigate to the **Attributes > Global Attributes** Tab and enter a value for your product attribute as shown below:

The above example shows how a Product Attribute has been configured for the United Kingdom Region. This way Product Attributes can be configured enabling the use of the Product Attribute by Region entity, to successfully broadcast the Product Attributes specific to the corresponding regions.

## XML

The **XML** of the above BRAND\_OPTION\_SET Option Set Entity which is the Product Attribute is shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:optionSet xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-open.org/
  <retail:name>BRAND_OPTION_SET</retail:name>
  <retail:optionSetId>brand_option_set</retail:optionSetId>
  <retail:options>
    <retail:textDataOption>
      <retail:optionId>brand_option_path</retail:optionId>
      <retail:name>brand_option_path</retail:name>
      <retail:title/>
      <retail:subtitle/>
    </retail:textDataOption>
  </retail:options>
  <retail:type>productAttributeOptionSet</retail:type>

  <retail:groupId groupHierarchyId="All" groupTypeId="region">UK</retail:groupId>
  <retail:prompt></retail:prompt>
  <retail:title/>
  <retail:subtitle/>
</retail:optionSet>

</Batch>
```

It is the **groupId** property which defines the region in this Option Set entity.

The **XML** of the above Product Attribute Entity is shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:productAttribute xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis
  <retail:optionPathId>brand_option_path</retail:optionPathId>
  <retail:optionSetId type="productAttributeOptionSet" optionSetId="brand_option_set">
    <retail:groupId groupHierarchyId="All" groupTypeId="region">UK</retail:groupId>
  </retail:optionSetId>
  <retail:dataType>STRING</retail:dataType>
  <retail:value id="brand_option_path">
    <retail:stringValue>Apple</retail:stringValue>
    <retail:localeId/>
  </retail:value>

  <retail:productId>00003</retail:productId>
  <retail:localeId/>
</retail:productAttribute>

</Batch>
```

It is the **groupId** property which defines the region in this Product Attribute entity.

**Note:** Product has a large amount of data and the XML that shows the Product Attributes of the Product exists in the entity called Product Attribute and not in the Product entity itself.

## Product Price by Region

When configuring a product price for regional broadcasting, it is the price group that specifies the region for which the product price belongs to. There are two configuration steps to set up product prices for specific regions:

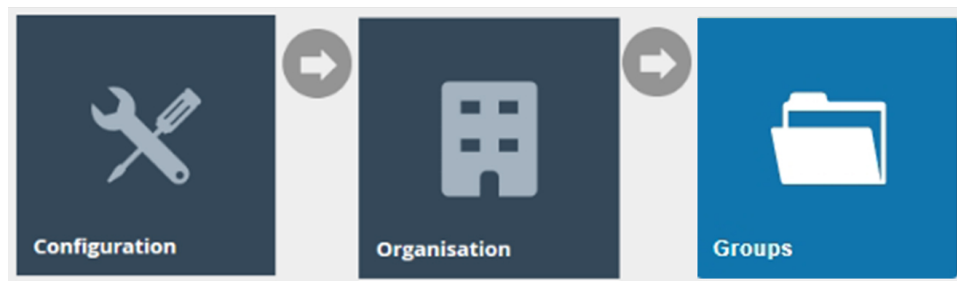
1. A price group should first be configured for the region as required.
2. A product should be configured for that configured price group which has a configured region to it.

This way, the Product Price by Region entity can be used to successfully broadcast the product prices specific to the corresponding regions.

## Configuration

First the Price Group should be created to specify a region to it. Group Hierarchy Maintenance application is used to set up price groups.

The Group Hierarchy maintenance application can be accessed through:  
Configuration -> Organisation -> Groups



Set the filter of the **Group Type** to **Price Group** and click on **Create New Price Group Hierarchy** as shown below:

The screenshot shows the 'Group Hierarchy Maintenance' application. At the top, there's a header bar with the title and some icons. Below it, there's a filter section with a 'Group Type' dropdown menu set to 'Price Group' (indicated by a red box and a '1'). There are also fields for 'Hierarchy ID' and 'Starts With'. Below the filter section, there's a table with columns: 'Hierarchy ID', 'Name', and 'Region'. The table has one row with 'ALL' in the first two columns and 'All Regions' in the third. At the bottom, there are two buttons: 'Create New Price Group Hierarchy' and 'Export Price Group Hierarchy'.

Enter a unique **Hierarchy ID** for the Price Group Hierarchy. The ID can be alphanumeric and contain a maximum of 20 characters.

Select the desired Region for the Price Group from the **Region** drop-down.

**Note:** The Region dropdown consists of the Regions that are already configured in the Group Hierarchy Maintenance.

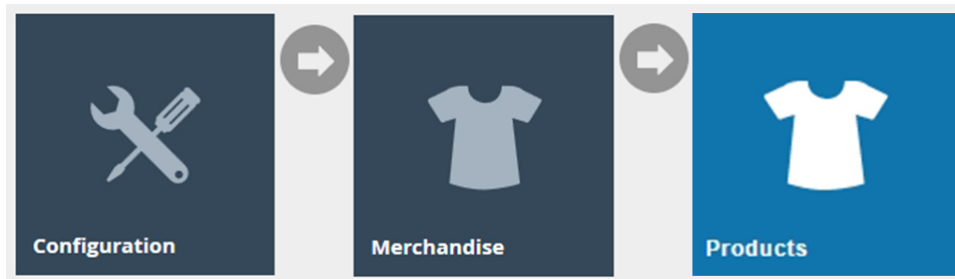
The screenshot shows the 'Group Hierarchy Maintenance' application. At the top, there's a header bar with the title and some icons. Below it, there's a form with a label 'Please enter an ID for the new Price Group hierarchy.' There are two input fields: 'Hierarchy ID' with the value 'UK\_PRICE\_GROUP' and 'Region' with the value 'United Kingdom' (indicated by a red box). At the bottom, there are two buttons: 'Back' and 'Create'.



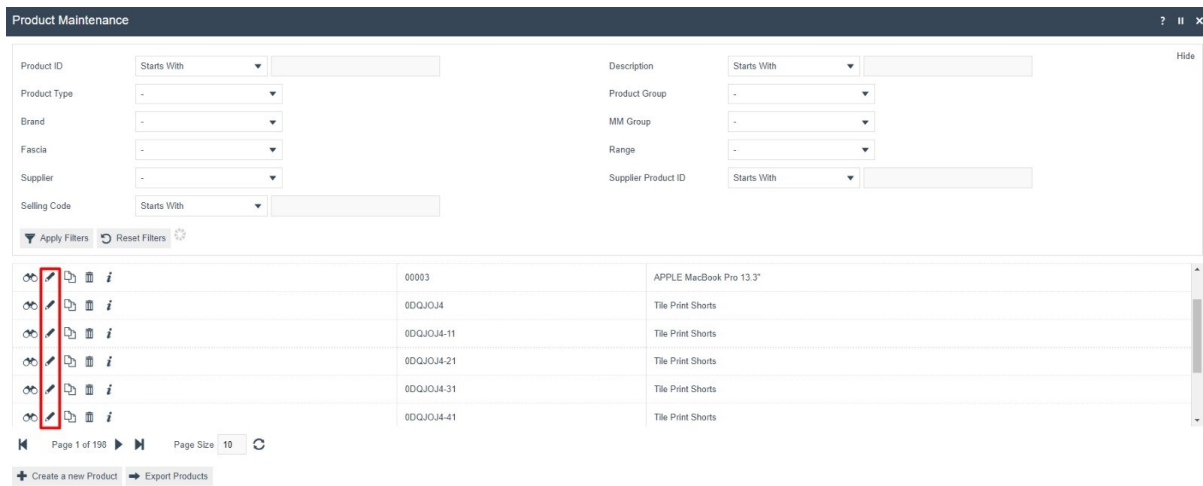
The above example shows how a Price Group has been created for the United Kingdom Region.

Once the Price Group has been created, a Product can be configured for this particular Price Group.

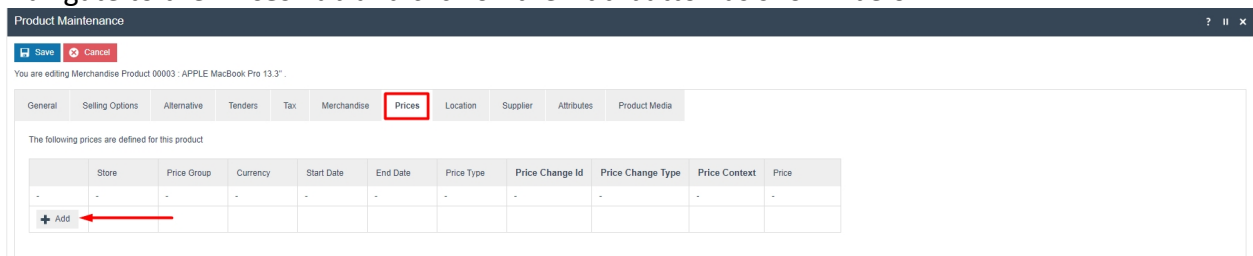
The Product maintenance application can be accessed through:  
Configuration -> Merchandise -> Products



Click on the edit icon of any product that the price group needs to be specified, as shown below:



Navigate to the **Prices** Tab and click on the **Add** button as shown below:



Select the appropriate Price Group from the Price Group dropdown as per the required region.

**Note:** The Price Group dropdown consists of the Price Groups that are already configured in the Group Hierarchy Maintenance.

**Product Price Maintenance**

Please enter following details for the new Product Price

Product ID: 00003

Location: -

Price Group: **All UK Regions (United Kingdom)**

Currency: £

Start Date: 01/01/2020

End Date: 31/12/2020

Price Type: Retail Unit

Price Context: -

[Back](#) [Create](#)

This way Product Prices can be configured enabling the use of the Product Price by Region entity, to successfully broadcast the Product Prices specific to the corresponding regions.

## XML

The XML of the above UK\_PRICE\_GROUP Price Group Entity is shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:priceGroup xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-open.org/ns/bpel4r
  <retail:groupId>ALL_UK</retail:groupId>
  <retail:groupTypeId>priceGroup</retail:groupTypeId>
  <retail:groupHierarchyId>UK_PRICE_GROUP</retail:groupHierarchyId>
  <retail:level>2</retail:level>
  <retail:level10GroupId></retail:level10GroupId>
  <retail:level11GroupId>UK_PRICE_GROUP</retail:level11GroupId>
  <retail:level12GroupId>ALL_UK</retail:level12GroupId>
  <retail:level13GroupId></retail:level13GroupId>
  <retail:level14GroupId></retail:level14GroupId>
  <retail:level15GroupId></retail:level15GroupId>
  <retail:level16GroupId></retail:level16GroupId>
  <retail:level17GroupId></retail:level17GroupId>
  <retail:level18GroupId></retail:level18GroupId>
  <retail:level19GroupId></retail:level19GroupId>
  <retail:name>All UK Regions</retail:name>
  <retail:localisedName>
    <core:string variant="" language="en" country="GB">All UK Regions</core:string>
  </retail:localisedName>
  <retail:variantGroupId>UK</retail:variantGroupId>
  <retail:variantGroupTypeId>region</retail:variantGroupTypeId>
  <retail:variantGroupHierarchyId>All</retail:variantGroupHierarchyId>
  <retail:variantLevel>2</retail:variantLevel>
</retail:priceGroup>

<retail:priceGroup xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-open.org/ns/bpel4r
  <retail:groupId>LONDON</retail:groupId>
  <retail:groupTypeId>priceGroup</retail:groupTypeId>
  <retail:groupHierarchyId>UK_PRICE_GROUP</retail:groupHierarchyId>
  <retail:level>2</retail:level>
  <retail:level10GroupId></retail:level10GroupId>
  <retail:level11GroupId>UK PRICE GROUP</retail:level11GroupId>
```

It is the **variantGroupId** property which defines the region in this Price Group entity.

The XML of the above Product Price Entity which was configured in the Product Maintenance is shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:productPrice xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-open.org/ns/bpel4people/ws-humantask/api/200803" xmlns:htd="http://docs.oasis-open.org/ns/bpel4people

  <retail:productId>00003</retail:productId>
  <retail:locationId></retail:locationId>
  <retail:priceGroupId>68</retail:priceGroupId>
  <retail:currencyId>68</retail:currencyId>
  <retail:startDate>2022-02-15T00:00:00.000Z</retail:startDate>
  <retail:priceType>R</retail:priceType>
  <retail:priceContext></retail:priceContext>
  <retail:price>49900</retail:price>
  <retail:pricingMethod></retail:pricingMethod>
  <retail:equivalentMeasureSystemId></retail:equivalentMeasureSystemId>
  <retail:equivalentUnitOfMeasureId></retail:equivalentUnitOfMeasureId>
  <retail:equivalentPrice>0</retail:equivalentPrice>
  <retail:roundingRuleId></retail:roundingRuleId>
  <retail:externalReference></retail:externalReference>
</retail:productPrice>

</Batch>
```

It is the **variantGroupId** property (derived from the price group entity) which defines the region in this Menu entity.

**Note:** Product has a large amount of data and the XML that shows the Product Price exists in the entity called Product Price and not in the Product entity itself.

## Product Group by Region

When configuring a product group for regional broadcasting, it is the product group that specifies the region for which the product belongs to. There are two configuration steps to set up product prices for specific regions:

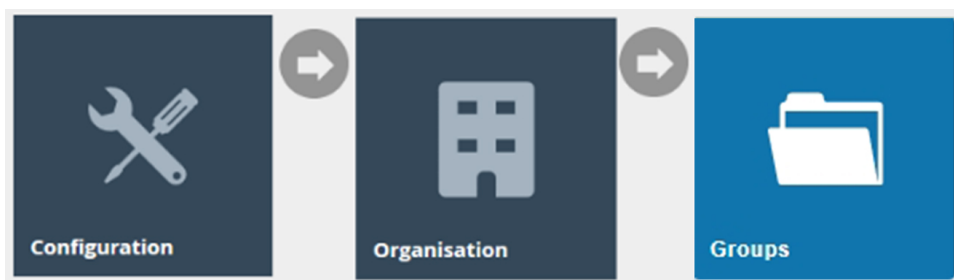
1. A product group should first be configured for the region as required.
2. A product should be configured for that configured product group, which has a configured region to it.

This way, the Product Group by Region entity can be used to successfully broadcast the product groups specific to the corresponding regions.

## Configuration

First the Product Group should be created to specify a region to it. Group Hierarchy Maintenance application is used to set up product groups.

The Group Hierarchy maintenance application can be accessed through:  
Configuration -> Organisation -> Groups



Set the filter of the **Group Type** to **Product Group** and click on **Create New Product Group Hierarchy** as shown below:

Group Hierarchy Maintenance

Group Type: Product Group

Hierarchy ID: Starts With:

Apply Filters: Reset Filters:

Hierarchy ID	Name	Region
Product Type	Product Type	All Regions

Page 1 of 1 Page Size: 10

Create New Product Group Hierarchy Export Product Group Hierarchy

Enter a unique **Hierarchy ID** for the Product Group Hierarchy. The ID can be alphanumeric and contain a maximum of 20 characters.

Select the desired Region for the Product Group from the **Region** drop-down.

**Note:** The Region dropdown consists of the Regions that are already configured in the Group Hierarchy Maintenance.

Group Hierarchy Maintenance

Please enter an ID for the new Product Group hierarchy.

Hierarchy ID: FASHION

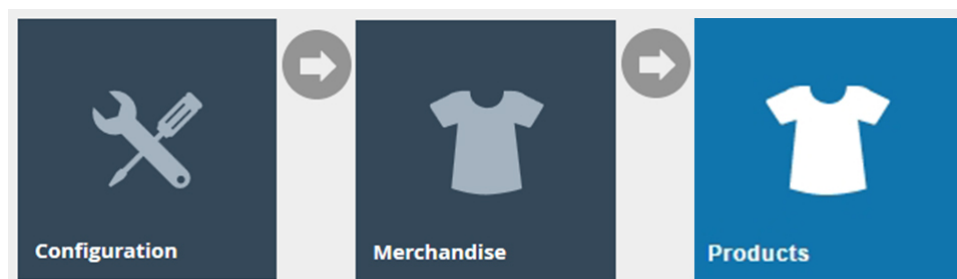
Region: United Kingdom

Back Create

The above example shows how a Product Group has been created for the United Kingdom Region.

Once the Product Group has been created, a Product can be configured for this particular Price Product Group.

The Product maintenance application can be accessed through:  
Configuration -> Merchandise -> Products



Click on the edit icon of any product that the product group needs to be specified, as shown below:

The screenshot shows the 'Product Maintenance' interface. At the top, there are various filters and dropdowns for Product ID, Product Type, Brand, Fascia, Supplier, Selling Code, Description, Product Group, MM Group, Range, and Supplier Product ID. Below these is a table of products. The first column of the table contains icons for edit, delete, and information. The second column contains product codes, and the third column contains product descriptions. The first row is highlighted, and its edit icon is circled in red. The table lists products like 'APPLE MacBook Pro 13.3"', 'Tile Print Shorts', and others with codes like '00093', '0DQJOU4', '0DQJOU4-11', etc.

Navigate to **General > Product Group** Tab.

Select the appropriate Product Group from the **Product Group** dropdown as per the required region and click on **Add**.

**Note:** The Product Group dropdown consists of the Product Groups that are already configured in the Group Hierarchy Maintenance.

The screenshot shows the 'Product Maintenance' interface with the 'Product Group' tab selected. The 'General' tab is also visible. The 'Product Group' tab shows a dropdown menu for 'Product Groups' with 'Fashion' selected. Below the dropdown is an 'Add' button. The interface also shows tabs for 'General', 'Label', 'Information', 'Product Group', 'Product Sale Region', 'Selling Codes', and 'Product Lists'.

This way Product Groups can be configured enabling the use of the Product Group by Region entity, to successfully broadcast the Product Groups specific to the corresponding regions.

## XML

The **XML** of the above FASHION Product Group Entity is shown below:

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:productGroup xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oas
  <retail:groupId>FASHION</retail:groupId>
  <retail:groupTypeId>productGroup</retail:groupTypeId>
  <retail:groupHierarchyId>FASHION</retail:groupHierarchyId>
  <retail:level>1</retail:level>
  <retail:level10GroupId></retail:level10GroupId>
  <retail:level11GroupId>FASHION</retail:level11GroupId>
  <retail:level12GroupId></retail:level12GroupId>
  <retail:level13GroupId></retail:level13GroupId>
  <retail:level14GroupId></retail:level14GroupId>
  <retail:level15GroupId></retail:level15GroupId>
  <retail:level16GroupId></retail:level16GroupId>
  <retail:level17GroupId></retail:level17GroupId>
  <retail:level18GroupId></retail:level18GroupId>
  <retail:level19GroupId></retail:level19GroupId>
  <retail:name>Fashion</retail:name>
  <retail:localisedName>
    <core:string variant="" language="en" country="GB">Fashion</core:string>
  </retail:localisedName>
  <retail:variantGroupId>UK</retail:variantGroupId>
  <retail:variantGroupTypeId>region</retail:variantGroupTypeId>
  <retail:variantGroupHierarchyId>All</retail:variantGroupHierarchyId>
  <retail:variantLevel>1</retail:variantLevel>
</retail:productGroup>

</Batch>

```

It is the **variantGroupId** property which defines the region in this Product Group entity.

The **XML** of the above Product Group Entity which was configured in the Product Maintenance is shown below:

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:productProductGroup xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-open.org/ns/bpel4people/ws-humantask/api/200803" xmlns:htd="http://docs.oasis-open
  <retail:groupId>variantGroupHierarchyId="All" variantGroupId="UK" variantGroupTypeId="region" groupHierarchyId="FASHION" groupTypeId="productGroup">FASHION</retail:groupId>
  <retail:productProductGroup></retail:productProductGroup>
</retail:productProductGroup>

</Batch>

```

It is the **variantGroupId** property (derived from the product group entity) which defines the region in this Product entity.

**Note:** Product has a large amount of data and the XML that shows the Product Group of the Product exists in the entity called Product Group and not in the Product entity itself.

## Promotion by Region

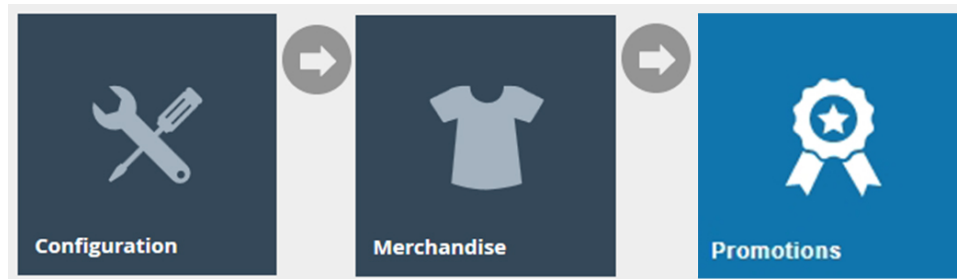
Regional Broadcasting for a Promotion is done based on how the Region is set in the Promotion entity. When configuring a promotion, the region can be specified for each of the

promotions at the time of creating it. This way, the Promotion by Region entity can be used to successfully broadcast the promotions specific to the corresponding regions.

## Configuration

First the Promotion should be created to specify a region to it. Promotion Maintenance application is used to set up promotions.

The Promotion maintenance application can be accessed through:  
Configuration -> Merchandise -> Promotions



To create a new promotion, select **Create New Promotion** on the Promotion Maintenance page as shown below:

The screenshot shows the 'Promotion Maintenance' application window. It features a top navigation bar with a search icon, a list icon, and a close icon. Below the navigation bar, there are several filter fields: 'Region' (a dropdown menu), 'MM Group' (a dropdown menu), 'Promotion ID' (a 'Starts With' search field), 'Description' (a 'Starts With' search field), 'Product ID' (a 'Starts With' search field), 'Category ID' (a 'Starts With' search field), and 'Status' (a dropdown menu). Below these filters are buttons for 'Apply Filters' and 'Reset Filters'. The main area of the application displays a table with the following columns: 'Promotion ID', 'Region', and 'Description'. The table contains 11 rows of data, each representing a different promotion. At the bottom of the table, there are pagination controls showing 'Page 1 of 5' and 'Page Size 10'. Below the pagination controls, there are two buttons: '+ Create New Promotion' (highlighted with a red box) and 'Export Promotions'.

Promotion ID	Region	Description
All_001	All Regions	% Discount (Cheapest Products)
All_002	All Regions	% Discount (Closest Products)
All_003	All Regions	% Discount (Dearest Products)
All_004	All Regions	45% Discount for selected items
All_005	All Regions	Free Product Alert
All_006	All Regions	Free Product Alert for transaction
All_007	All Regions	Special Promotion Coupon
All_010	All Regions	Fee Override
All_011	All Regions	50% Discount for selected items

Select the desired Region for the **Promotion** from the **Region** drop-down.

Enter a unique **Promotion ID** for the promotion. The ID can be alphanumeric and contain a maximum of 20 characters.

**Note:** The Region dropdown consists of the Regions already configured in the Group Hierarchy Maintenance.



## Promotion Maintenance

You are adding a new promotion, please enter the ID:

Region	United Kingdom	
Promotion ID	UK_001	Autogenerate ID
<a href="#">← Back</a> <a href="#">+ Create</a>		

The above example shows how a Promotion has been created for the United Kingdom Region. This way Promotions can be configured enabling the use of the Promotion by Region entity, to successfully broadcast the promotions specific to the corresponding regions.

## XML

The **XML** of the above UK\_001 Promotion Entity is shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>
<retail:promotion xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-open.org/ns/bi
  <retail:promotionId>UK_001</retail:promotionId>
  <retail:groupKey groupHierarchyId="All" groupId="region">UK</retail:groupKey>
  <retail:description>Cheapest Products Free in the transaction</retail:description>
  <retail:priority>1</retail:priority>
  <retail:promotionOverlaps/>
  <retail:notes>Cheapest Products Free in the transaction</retail:notes>
  <retail:distributeSavingsOverAllItems>false</retail:distributeSavingsOverAllItems>
  <retail:operationWithPreviousPromotions>GROSS</retail:operationWithPreviousPromotions>
  <retail:operationWithDiscounts>APPLIES_AFTER_ON_GROSS</retail:operationWithDiscounts>
  <retail:raiseNearMissAlert>false</retail:raiseNearMissAlert>
  <retail:maximumTriggersPerTransaction>0</retail:maximumTriggersPerTransaction>
  <retail:multibuyReward>
    <retail:rewardType>CHEAPEST_PRODUCTS_FREE</retail:rewardType>
    <retail:thresholdType>COUNT</retail:thresholdType>
    <retail:thresholdValue>5.0</retail:thresholdValue>
    <retail:multibuyRewardId>1</retail:multibuyRewardId>
    <retail:description>Cheapest Products Free in the transaction</retail:description>
    <retail:maximumThresholdValue>0.0</retail:maximumThresholdValue>
    <retail:uniqueItems>false</retail:uniqueItems>
    <retail:includeAllItems>true</retail:includeAllItems>
    <retail:maximumItemQuantity>0.0</retail:maximumItemQuantity>
    <retail:freeProducts>1</retail:freeProducts>
    <retail:excludedMMGroup variantGroupHierarchyId="All" variantGroupId="All" variantGroupTypeId=
    <retail:excludeItemsFromSubsequentItemSets>true</retail:excludeItemsFromSubsequentItemSets>
  </retail:multibuyReward>
  <retail:timetableTrigger>
    <retail:startDate/>
    <retail:endDate/>
    <retail:triggerEndDate/>
    <retail:timePeriod>
```

It is the **groupKey** property which defines the region in this Promotion entity.

## Reason by Region

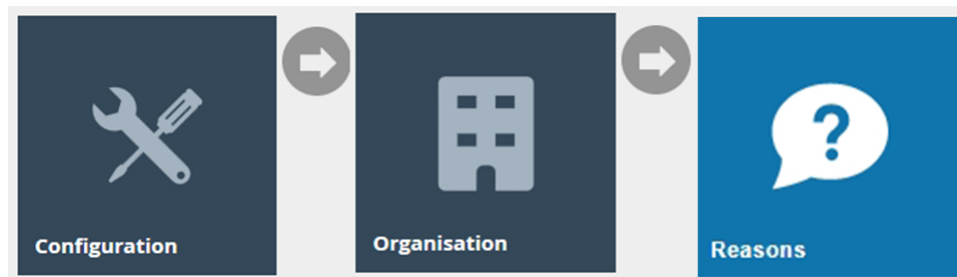
Regional Broadcasting for a Reason will be done based on how the Region is set in the Reason entity. When configuring a reason, the region can be specified for each of the reasons at the time of creating it. This way, the Reason by Region entity can be used to successfully broadcast the reasons specific to the corresponding regions.



## Configuration

First the Reason should be created to specify a region to it. Reason Maintenance application is used to set up Reasons.

The Group Reason Maintenance application can be accessed through:  
Configuration -> Organisation -> Reasons



To create a new reason promotion, select **Create New Reason** on the Reason Maintenance page as shown below:

The screenshot shows the Reason Maintenance application interface. At the top, there are filters for Region, Reason Type, and Reason ID. Below the filters is a table with columns: Reason ID, Reason Type, Region, Reason Start Date, Reason End Date, and Description. The table contains several rows of data. At the bottom of the interface, there are buttons for 'Create a new Reason' and 'Export Reason'.

Reason ID	Reason Type	Region	Reason Start Date	Reason End Date	Description
ID-UK-06	Item Discount	United Kingdom			Item Discount - Percentage Range
ID-US-06	Item Discount	United States			Item Discount - Percentage Range
ID-US-08	Item Discount	United States			\$1.00 Item Disc. - Witness Capture
COFD-UK-02	Order Manager Additional Deposit	United Kingdom			0% no preauth
COFD-UK-02	Order Manager Additional Deposit	United States			0% no preauth
COFD-UK-01	Order Manager Additional Deposit	United Kingdom			10%
COFD-UK-01	Order Manager Additional Deposit	United States			10%
ID-UK-01	Item Discount	United Kingdom			10% Item Discount
ID-US-01	Item Discount	United States			10% Item Discount
TD-US-01	Transaction Discount	United States			10% Transaction Discount

Select the desired Region for the **Reason** from the **Region** drop-down.

Select the desired Reason Type from the **Reason Type** drop-down.

Enter a unique **Reason ID** for the reason. The ID can be alphanumeric and contain a maximum of 20 characters.

**Note:** The Region dropdown consists of the Regions that are already configured in the Group Hierarchy Maintenance.

## Reason Maintenance

You are adding a new Reason, please select the Region and Reason Type and enter an ID:

Region	United Kingdom
Reason Type	Item Discount
Reason ID	ID-UK-01
<a href="#">← Back</a> <a href="#">+ Create</a>	

The above example shows how a Reason has been created for the United Kingdom Region. This way Reasons can be configured enabling the use of the Reason by Region entity, to successfully broadcast the reasons specific to the corresponding regions.

## XML

The XML of the above ID-UK-01 Reason Entity is shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>
  <retail:itemDiscountReason xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-o
    <retail:reasonId>ID-UK-01</retail:reasonId>
    <retail:parentReasonId></retail:parentReasonId>
    <retail:reasonType>ITEM DISCOUNT</retail:reasonType>
    <retail:regionId groupHierarchyId="All" groupTypeId="region">UK</retail:regionId>
    <retail:descriptions>
      <core:string variant="" language="en" country="GB">10% Item Discount</core:string>
    </retail:descriptions>
    <retail:referenceRequired>false</retail:referenceRequired>
    <retail:functionAuthorisationCode></retail:functionAuthorisationCode>

    <retail:captureNameAndAddress>false</retail:captureNameAndAddress>
    <retail:discountAmountLimit>0</retail:discountAmountLimit>
    <retail:allowForMerchandiseItems>true</retail:allowForMerchandiseItems>
    <retail:allowForNonMerchandiseItems>false</retail:allowForNonMerchandiseItems>
    <retail:disallowForGiftVoucherSales>false</retail:disallowForGiftVoucherSales>
    <retail:captureDetails>false</retail:captureDetails>
    <retail:applicablePriceTypes/>
    <retail:applicablePriceChangeTypes/>
    <retail:discountPercentage>0.1</retail:discountPercentage>
    <retail:roundingRule>DOWN</retail:roundingRule>
    <retail:amountEntry>false</retail:amountEntry>
    <retail:maxDiscountPercentage>0.0</retail:maxDiscountPercentage>
    <retail:excludeReturnItems>false</retail:excludeReturnItems>
    <retail:numberCopyReceipts>0</retail:numberCopyReceipts>
    <retail:singleUse>false</retail:singleUse>
    <retail:overlapping>true</retail:overlapping>
    <retail:applicableItemDiscount>
      <retail:applicableReason>
        <retail:reasonId>ID-UK-01</retail:reasonId>
        <retail:regionId groupHierarchyId="All" groupTypeId="region">UK</retail:regionId>
      </retail:applicableReason>
      <retail:applicability>DISALLOW</retail:applicability>
    </retail:applicableItemDiscount>
    <retail:applicableItemDiscount>
      <retail:reasonId>ID-UK-01</retail:reasonId>
      <retail:regionId groupHierarchyId="All" groupTypeId="region">UK</retail:regionId>
    </retail:applicableItemDiscount>
  </retail:itemDiscountReason>
</Batch>
```

It is the **regionId** property which defines the region in this Reason entity.

## Regional Product by Region

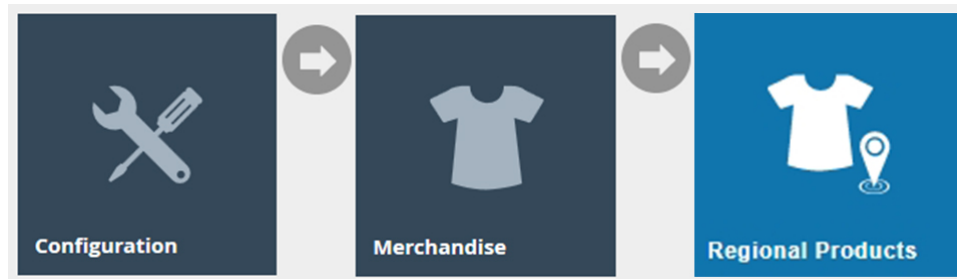
Regional Broadcasting for a Regional Product will be done based on how the Region is set in the Regional Product entity. When configuring a regional product, the region can be specified for each of the regional products at the time of creating it. This way, the Regional

Product by Region entity can be used to successfully broadcast the regional products specific to the corresponding regions.

## Configuration

First the Regional Product should be created to specify a region to it. Regional Product Maintenance application is used to set up Regional Products.

The Regional Product maintenance application can be accessed through:  
Configuration -> Merchandise -> Regional Products



To create a new product, select **Create a new Product** on the Regional Product maintenance page as shown below:

Product ID	Product Description	Region
-	-	-

Select the desired Region for the Regional Product from the **Region** drop-down.

Enter a unique **Product ID** for the Regional Product. The ID can be alphanumeric and contain a maximum of 20 characters.

**Note:** The Region dropdown consists of the Regions that are already configured in the Group Hierarchy Maintenance.

## Regional Product Maintenance

You are adding a new product, please enter the ID:

Region

All Regions ▼

Product ID

00001

← Back + Create

The above example shows how a Regional Product has been created for the United Kingdom Region. This way Regional Products can be configured enabling the use of the Regional Product by Region entity, to successfully broadcast the regional products specific to the corresponding regions.

## XML

The XML of the above 0001 Regional Product Entity is shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:regionalPosProduct xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-or
  <retail:productId>00001</retail:productId>
  <retail:regionId groupHierarchyId="All" groupTypeId="region">UK</retail:regionId>
  <retail:type>regionalPosProduct</retail:type>
  <retail:productDescription>
    <core:string variant="" language="en" country="GB">Cotton Tshirt</core:string>
  </retail:productDescription>
  <retail:productLongDescription/>
  <retail:status></retail:status>
  <retail:isTemplate>false</retail:isTemplate>

  <retail:posDetails>
    <retail:productOptionSetDetails>
      <retail:isTemplate>false</retail:isTemplate>
    </retail:productOptionSetDetails>
    <retail:isTemplate>false</retail:isTemplate>
  </retail:posDetails>
  <retail:warrantyDetails>
    <retail:localisedWarrantyInformation/>
    <retail:isTemplate>false</retail:isTemplate>
    <retail:warrantyInformation></retail:warrantyInformation>
  </retail:warrantyDetails>
  <retail:inventoryDetails>
    <retail:isTemplate>false</retail:isTemplate>
  </retail:inventoryDetails>
  <retail:regionalisePosDetails>false</retail:regionalisePosDetails>
  <retail:regionaliseWarrantyDetails>false</retail:regionaliseWarrantyDetails>
  <retail:regionaliseInventoryDetails>false</retail:regionaliseInventoryDetails>
  <retail:localisedProductInformation/>
  <retail:overrideLocalisedProductInfo>false</retail:overrideLocalisedProductInfo>
</retail:regionalPosProduct>

</Batch>
```

It is the **regionId** property which defines the region in this Regional Product entity.

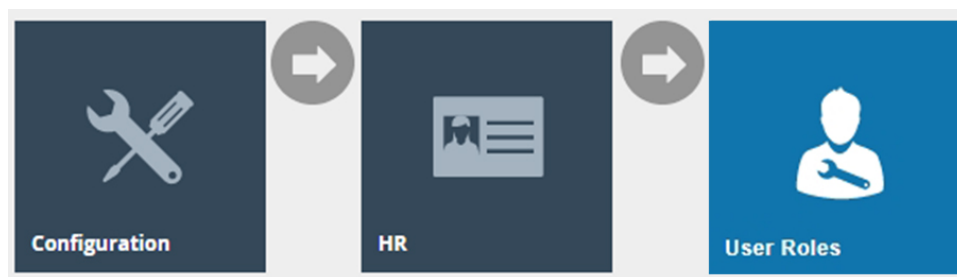
## Role by Region

Regional Broadcasting for a Role will be done based on how the Region is set in the Role entity. When configuring a role, the region can be specified for each of the roles at the time of creating it. This way, the Role by Region entity can be used to successfully broadcast the roles specific to the corresponding regions.

## Configuration

First the Role should be created to specify a region to it. User Role Maintenance application is used to set up user roles.

The User maintenance application can be accessed through:  
Configuration -> HR -> User Roles



To create a new User Role, select **Create a new User Role** on the User Role maintenance page as shown below:

The screenshot shows the 'User Role Maintenance' application. At the top, there are filters for 'Region' (a dropdown menu), 'User Role ID' (a 'Starts With' dropdown and a text input), and 'Authorisation Level' (a text input). Below these are 'Apply Filters' and 'Reset Filters' buttons. The main area contains a table with the following data:

	User Role ID	Description	Authorisation Level
	ADMINISTRATOR	Administrator	100
	ADMINISTRATOR1	AdministratorReceipt	100
	ASSIST_MANAGER	Assistant Manager	50
	CENTRAL_INVENTORY	Central Inventory	75
	CONFIG_UPLOAD	CONFIG_UPLOAD	0
	CRM-POS	CRM POS	10
	CUSTOMER_ORDER_MGR	Customer Order Manager (HO)	70
	GIFTCARD	Gift Cards	20
	JOLOKIA	Jolokia monitoring user role	100
	LOYALTY	Loyalty	15

At the bottom left, there is a 'Page 1 of 2' indicator and a 'Page Size' dropdown set to '10'. Below the table, there are two buttons: 'Create a new User Role' (highlighted with a red box) and 'Export Role'.

Select the desired Region for the user role from the **Region** drop-down.

Enter a unique **User Role ID** for the user role. The ID can be alphanumeric and contain a maximum of 20 characters.

**Note:** The Region dropdown consists of the Regions that are already configured in the Group Hierarchy Maintenance.

## User Role Maintenance

You are adding a new User Role, please select a region and enter an ID:

Region	United Kingdom ▼
User Role ID	ASSIST_MANAGER

← Back + Create

The above example shows how a Role has been created for the United Kingdom Region. This way Roles can be configured enabling the use of the Role by Region entity, to successfully broadcast the roles specific to the corresponding regions.

## XML

The **XML** of the above ASSIST\_MANAGER Role Entity is shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:role xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-open.o
  <retail:roleId>ASSIST_MANAGER</retail:roleId>
  <retail:description>Assistant Manager - UK</retail:description>
  <retail:authorisationLevel>50</retail:authorisationLevel>
  <retail:regionId groupHierarchyId="All" groupTypeId="region">UK</retail:regionId>
  <retail:privileges>
    <retail:id>enactor.pos.DisallowSalesAfterTender</retail:id>
  </retail:privileges>
  <retail:privileges>
    <retail:id>enactor.pos.AutoSignOffTender</retail:id>
  </retail:privileges>
  <retail:lastUpdated>2022-02-15T09:27:55.289Z</retail:lastUpdated>
</retail:role>

</Batch>
```

It is the **regionId** property which defines the region in this Role entity.

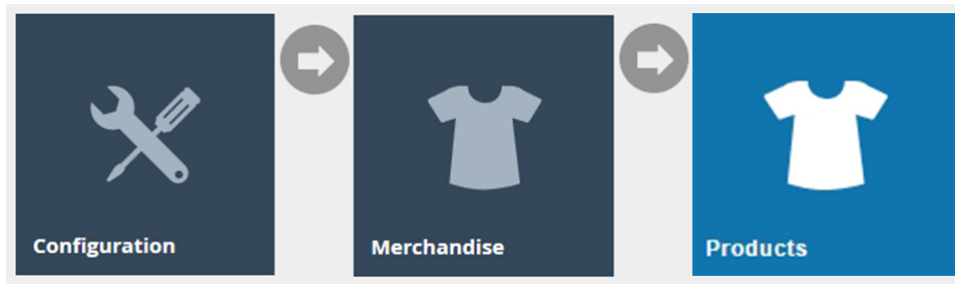
## Selling Code by Region

Regional Broadcasting for a Selling Code will be done based on how the Region is set in the Product entity. When configuring a Product, the Selling Code can be specified for each of the products in the Selling Codes Tab of the Product Maintenance. This way, the Selling Code by Region entity can be used to successfully broadcast the selling codes specific to the configured regions.

## Configuration

First the Product should be configured to specify a selling code to it.

The Product maintenance application can be accessed through:  
Configuration -> Merchandise -> Products



Click on the edit icon of any product that the selling code region needs to be specified, as shown below:

Navigate to the **General > Selling Codes** Tab.

Enter a Selling Code and select the desired region from the **Regions** dropdown list and click on the **Add** button.

**Note:** The Regions dropdown consists of the Regions that are already configured in the Group Hierarchy Maintenance.

This way Selling Codes can be configured enabling the use of the Selling Code by Region entity, to successfully broadcast the products specific to the corresponding regions.

## XML

The **XML** of the Selling Code Entity configured above in the Product Maintenance is shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:sellingCode xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-open.org/ns/bpel4people/ws-humantask/api/200803"
  <retail:regionId groupHierarchyId="All" groupTypeId="region">UK</retail:regionId>
  <retail:sellingCode>000AB01</retail:sellingCode>
  <retail:productId>00003</retail:productId>
  <retail:effectiveFrom>2022-02-18T00:00:00Z</retail:effectiveFrom>
</retail:sellingCode>

</Batch>
```

It is the **regionId** property which defines the region in this Selling Code entity.

**Note:** Product has a large amount of data and the XML that shows the Selling Code exists in the entity called Selling Code and not in the Product entity itself.

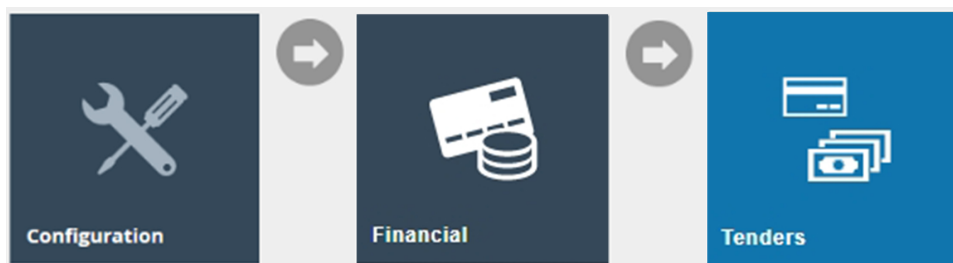
## Tender by Region

Regional Broadcasting for a Tender will be done based on how the Region is set in the Tender entity. When configuring a tender, the region can be specified for each of the reasons at the time of creating it. This way, the Tender by Region entity can be used to successfully broadcast the tenders specific to the corresponding regions.

## Configuration

First the Tender should be created to specify a region to it. Tender Maintenance application is used to set up tenders.

The Tender maintenance application can be accessed through:  
Configuration -> Financial -> Tenders



To create a new Tender, select **Create a new Tender** on the Tender maintenance page as shown below:



**Tender Maintenance**

Region:  Hide

Tender Type:

Tender ID:

	Tender ID	Tender Type	Region	Description
	PDQ	Cash	United Kingdom	Cards PDQ UK
	CRD	Card	United Kingdom	Cards UK
	CASH	Cash	United Kingdom	Cash UK
	CSH	Cash	United Kingdom	Cash UK
	CHK	Cheque	United Kingdom	Cheques UK
	CN	Credit Note	United Kingdom	Credit Note UK
	CA	Customer Account	United Kingdom	Customer Account UK
	EA	Employee Account	United Kingdom	Employee Account UK
	GC	Gift Card	United Kingdom	Gift Card UK
	LA	Loyalty Account	United Kingdom	Loyalty Account UK

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Select the desired Region for the **Tender** from the **Region** drop-down.

Select the desired Tender Type from the **Tender Type** drop-down.

Enter a unique **Tender ID** for the tender. The ID can be alphanumeric and contain a maximum of 20 characters.

**Note:** The Region dropdown consists of the Regions that are already configured in the Group Hierarchy Maintenance.

**Tender Maintenance**

You are adding a new tender, please select the tender type and enter an ID:

Region:

Tender Type:

Tender ID:

The above example shows how a Tender has been created for the United Kingdom Region. This way Tenders can be configured enabling the use of the Tender by Region entity, to successfully broadcast the tenders specific to the corresponding regions.

## XML

The **XML** of the above CSH\_UK Tender Entity shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:cashTender tenderType="cashTender" tenderId="CSH_UK" xmlns:core="http://www.enactor.com/core" xmlns:hta="http://
  <retail:groupId groupHierarchyId="All" groupId="region">UK</retail:groupId>
  <retail:descriptions>
    <core:string variant="" language="en" country="GB">Cash UK</core:string>
  </retail:descriptions>
  <retail:currencyId>GBP</retail:currencyId>
  <retail:creditLimit>10000000</retail:creditLimit>
  <retail:debitLimit>10000000</retail:debitLimit>
  <retail:minimumDebitAmount>0</retail:minimumDebitAmount>
  <retail:minimumCreditAmount>0</retail:minimumCreditAmount>
  <retail:minimumTransactionValue>0</retail:minimumTransactionValue>
  <retail:maximumTendersPerTransaction>0</retail:maximumTendersPerTransaction>
  <retail:debitTenderingRestrictions>NONE</retail:debitTenderingRestrictions>
  <retail:creditTenderingRestrictions>AMOUNT_LESS_THAN_BALANCE</retail:creditTenderingRestrictions>
  <retail:assignChangeToOverPayment>false</retail:assignChangeToOverPayment>
  <retail:changeLimit>0</retail:changeLimit>
  <retail:changeMinimumLimit>0</retail:changeMinimumLimit>
  <retail:secondaryChangeLimit>0</retail:secondaryChangeLimit>
  <retail:secondaryChangeMinimumLimit>0</retail:secondaryChangeMinimumLimit>
  <retail:creditChangeLimit>0</retail:creditChangeLimit>
  <retail:surchargeAmount>0</retail:surchargeAmount>
  <retail:surchargeRate>0.0</retail:surchargeRate>
  <retail:includeInSafeLimitCheck>false</retail:includeInSafeLimitCheck>
  <retail:isBankingTender>true</retail:isBankingTender>
  <retail:isCashupTender>true</retail:isCashupTender>
  <retail:isCurrencyPurchaseTender>true</retail:isCurrencyPurchaseTender>
  <retail:isFirstTender>true</retail:isFirstTender>
```

It is the **groupId** property which defines the region in this Tender entity.

## Locational Entity Configuration

Following are the **Locational Entities** and where they can be configured to successfully Broadcast by Location using the Predefined Broadcast:

Locational Entity	Configuration
Product Price by Location	Product Price Maintenance
User by Location	User Maintenance

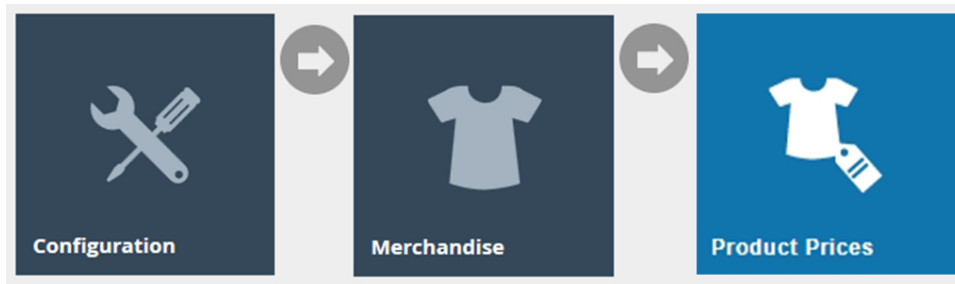
### Product Price by Location

Locational Broadcasting for a Product Price will be done based on how the Location is set in the Product Price entity. When configuring a product price, the location can be specified for each of the product prices at the time of creating it. This way, the Product Price by Location entity can be used to successfully broadcast the product prices specific to the corresponding locations.

### Configuration

First a product price should be created to specify a region to it. Product Price Maintenance application is used to set up product prices.

The Tender maintenance application can be accessed through:  
Configuration -> Financial -> Tenders



To create a new product price, select **Create a Product Price** on the Product Price maintenance page as shown below:

**Product Price Maintenance**

Product ID: Starts With [ ] Location: [ ]  
 Price Group: [ ] Currency: [ ]  
 Start Date: [ ] End Date: [ ]  
 Price Type: [ ] Price Context: Starts With [ ]

Apply Filters Reset Filters

	Product	Location	Price Group	Currency	Start Date	End Date	Type	Price	Price Change	Price Context
	00001		United Kingdom	Pounds Sterling	23/03/2021, 00:00		Retail Unit	£5.00		
	00001		United States	US Dollars	23/03/2021, 00:00		Retail Unit	US\$5.00		
	00003		All UK Regions	Pounds Sterling	15/02/2022, 00:00		Retail Unit	£499.00		
	0DQJQJ4		United Kingdom	Euros	11/04/2014, 00:00		Retail Unit	€182.00		
	0DQJQJ4		United Kingdom	Pounds Sterling	11/04/2014, 00:00		Retail Unit	£162.50		
	0DQJQJ4		United States	US Dollars	11/04/2014, 00:00		Retail Unit	US\$162.50		
	0J70QOP		United Kingdom	Euros	11/04/2014, 00:00		Retail Unit	€280.00		
	0J70QOP		United Kingdom	Pounds Sterling	11/04/2014, 00:00		Retail Unit	£250.00		
	0J70QOP		United States	US Dollars	11/04/2014, 00:00		Retail Unit	US\$250.00		

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**+ Create a new Product Price** Export Product Prices

Enter the **Product ID** and select the desired **Location** for the **Product Price** from the Location dropdown.

**Note:** The Location dropdown consists of the Locations that are already configured in the Location Maintenance.

**Product Price Maintenance**

Please enter following details for the new Product Price

Product ID: 00001  
**Location: UK Hertford**  
 Price Group: [ ]  
 Currency: Pounds Sterling  
 Start Date: 15 February 202 00 : 00 : 00  
 End Date: [ ]  
 Price Type: Retail Unit  
 Price Context: [ ]

Back Create

This way product prices can be configured enabling the use of the Product Price by Location entity, to successfully broadcast the product prices specific to the corresponding locations.

## XML

The XML of the above Product Price Entity is shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:productPrice xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oas
  <retail:lastUpdated>2022-02-15T10:01:47Z</retail:lastUpdated>
  <retail:productId>00001</retail:productId>
  <retail:locationId>0001</retail:locationId>
  <retail:priceGroupId groupHierarchyId="" groupId=""></retail:priceGroupId>
  <retail:currencyId>GBP</retail:currencyId>
  <retail:startDate>2022-02-15T00:00:00.000Z</retail:startDate>
  <retail:priceType>R</retail:priceType>
  <retail:priceContext></retail:priceContext>
  <retail:price>500</retail:price>
  <retail:pricingMethod></retail:pricingMethod>
  <retail:equivalentMeasureSystemId></retail:equivalentMeasureSystemId>
  <retail:equivalentUnitOfMeasureId></retail:equivalentUnitOfMeasureId>
  <retail:equivalentPrice>0</retail:equivalentPrice>
  <retail:roundingRuleId/>
  <retail:externalReference></retail:externalReference>
</retail:productPrice>

</Batch>
```

It is the **locationId** property which defines the region in this Product Price entity.

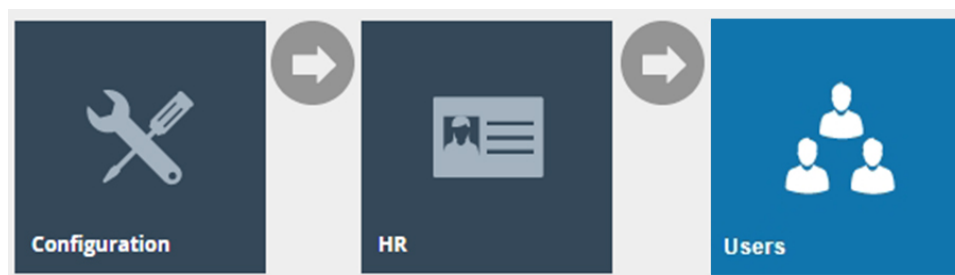
## User by Location

Locational Broadcasting for a User will be done based on how the Location is set in the Users entity. When configuring a user, the location can be specified for each of the users at the time of creating it. This way, the Users by Location entity can be used to successfully broadcast the users specific to the corresponding locations.

## Configuration

The User maintenance application can be accessed through:

Configuration -> HR -> Users



**Edit** the desired **User** and make sure that the appropriate **Location** is selected in the **Location** field as shown below:

**Note:** The Location dropdown consists of the Locations that are already configured in the Location Maintenance.

The screenshot shows the 'User Maintenance' form. The 'Location' dropdown menu is open, displaying a list of locations. The 'UK Hertford' location is highlighted. The form includes fields for Forename, Initials, Date Of Birth, Sex, Left Handed, Short ID, Employee ID, and a Focal User Reference. The 'Location' field is highlighted with a red box.

This way users can be configured enabling the use of the User by Location entity, to successfully broadcast the users specific only to the corresponding locations.

## XML

The XML of the above UK Hertford Store Location Entity is shown below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Batch>

<retail:user xmlns:core="http://www.enactor.com/core" xmlns:hta="http://docs.oasis-open.org/ns/bpel4people/v
  <retail:dateTimeActivated>2021-05-17T20:30:01+01:00</retail:dateTimeActivated>
  <retail:displayName>Hertford Sales Asst</retail:displayName>
  <retail:employeeId></retail:employeeId>
  <retail:locationId>0001</retail:locationId>
  <retail:password>Q1Fvjzqky061mCawv/qeK807Ox1Gcz5xPZ+pygJI3Mk=HaKhU0INNac=</retail:password>
  <retail:passwordLastChanged>2021-05-17T20:30:28.851+01:00</retail:passwordLastChanged>
  <retail:forceChangePassword>false</retail:forceChangePassword>
  <retail:strongPassword>false</retail:strongPassword>
  <retail:shortId></retail:shortId>
  <retail:address>
    <retail:countryCodeId></retail:countryCodeId>
    <retail:typeId></retail:typeId>
    <retail:isTemplate>false</retail:isTemplate>
  </retail:address>
  <retail:userId>000102</retail:userId>
  <retail:userName>
    <retail:surname>Hertford Sales Asst</retail:surname>
    <retail:forename>000102</retail:forename>
    <retail:initials>SB</retail:initials>
  </retail:userName>
  <retail:timePeriod>
    <core:dayOfWeek>1</core:dayOfWeek>
  </retail:timePeriod>
  <retail:timePeriod>
    <core:dayOfWeek>2</core:dayOfWeek>
  </retail:timePeriod>
  </retail:user>
</Batch>
```

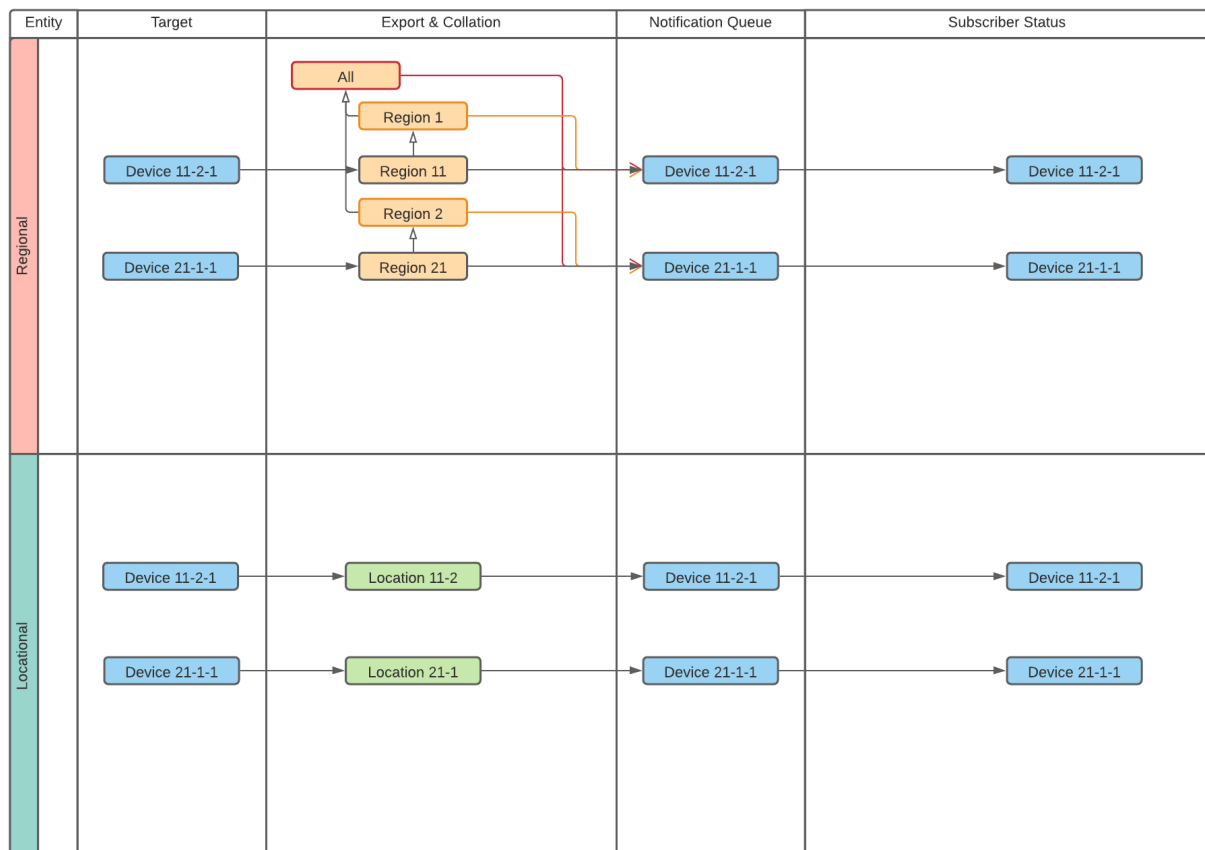
It is the **locationId** property which defines the region in this User entity.

# Data Distribution for Regional Broadcasting

This section explains how Regional and Locational data are handled during broadcasting. It starts with the selection of the target (device, location or region). Exporting and collation take place for the regional and locational entities. These move into a notification queue, and finally a subscribed device receives the regional or locational data. The status of the subscribed device can be monitored in the broadcast history.

## Regional Broadcast – Devices

This section describes, along with an illustration, how data is distributed when broadcasts are sent to **Devices**.



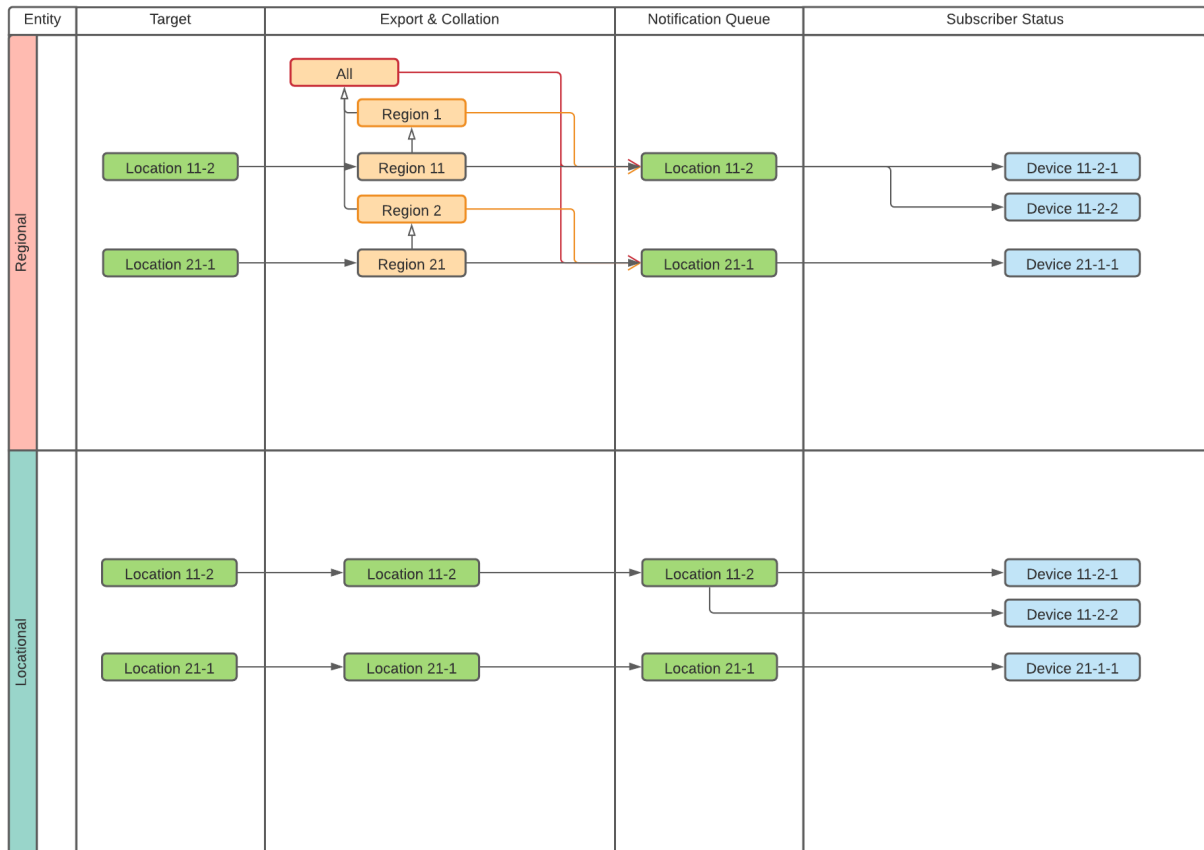
The following table describes each column of the above diagram in detail:

Target	Export & Collation	Notification Queue	Subscriber Status
This is when the predefined broadcast has been configured as Devices in the “Send to” field as the broadcast target, which allows sending the broadcast to only particular devices.	<p>In the Export &amp; Collation stage, the selected entities are checked whether they are regional or locational, based on the target specified, which here is the <b>Device</b>.</p> <p>The first row depicts how the Regional Entities will be handled. The first Device, Device 11-2-1, is</p>	During the Notification stage, notifications will be sent to inform the target of the files it needs to download. In this case, it will use the <b>Device Queue</b> . Once the notification is	The status of the subscribers will be updated, and this can be viewed in the broadcast history. In this case the subscribers will just be the targets.

	<p>part of Region 11, and that region is a child of both Region 1 and All. So, the export and collation will handle the Regional entities configured for <b>Region 11, Region 1 and All Regions</b>. The Regional entities for Region 2 and Region 21 are not included in this context. They will instead be included for the other Device, Device-21-1-1, which is a part of those Regions. When the Export and Collation has completed there will be individual zip files for each region.</p>	<p>sent, it will then be up to the subscribers of the queue to request the files to download.</p>	
	<p>The second row depicts how the Locational Entities will be handled. The devices are the same, so this is the only place where the process will differ. Here the export and collation will handle the location that the device is a part of.</p>		

## Regional Broadcast – Locations

This section describes, along with an illustration, how data is distributed when broadcasts are sent to **Locations**.



The following table describes each column of the above diagram in detail:

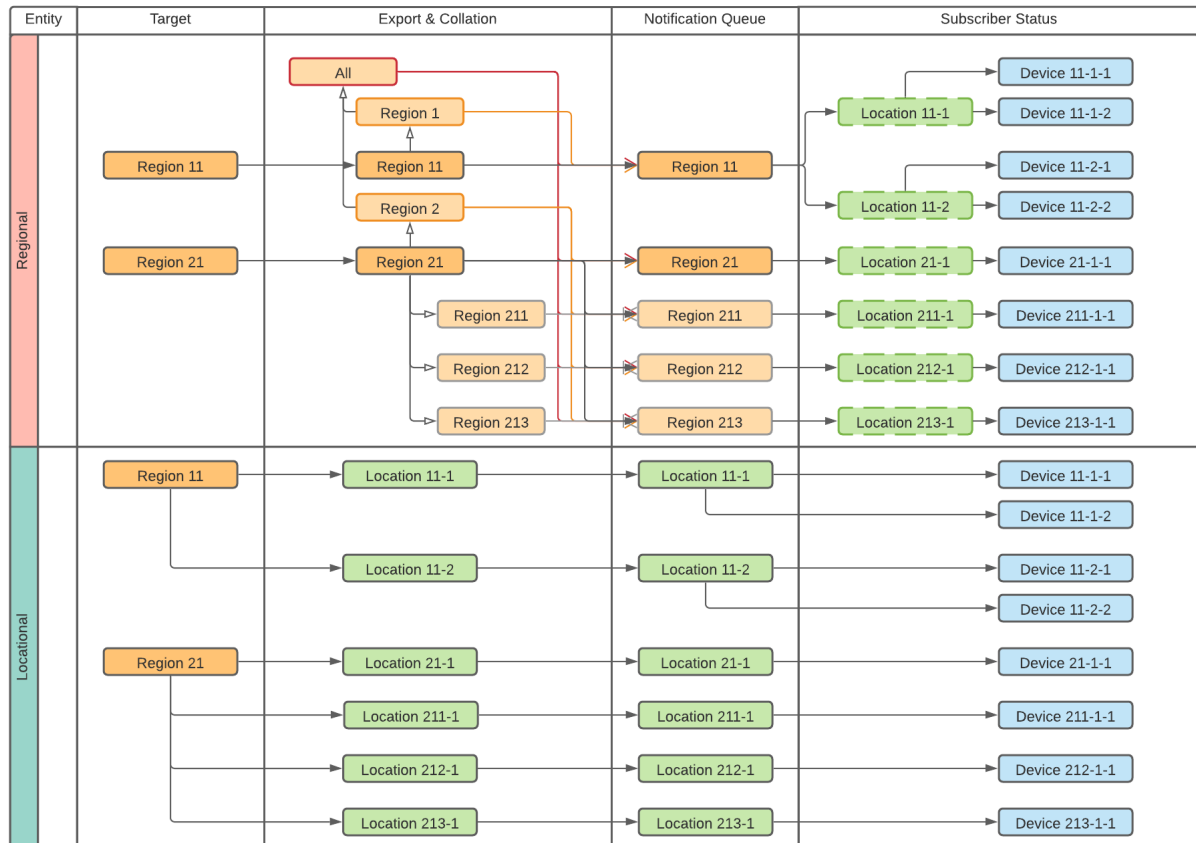
Target	Export & Collation	Notification Queue	Subscriber Status
<p>This is when the predefined broadcast has been configured as <b>Locations</b> in the “Send to” field as the broadcast target, which allows to send the broadcast to only particular locations.</p>	<p>In the Export &amp; Collation stage, the selected entities are checked if it is regional or locational, based on the target specified, which here is the <b>Location</b>.</p>	<p>Once all the export &amp; collation jobs are completed, everything is combined, and a notification is sent through the messaging system. This is when the data goes to the target, where it is decided which queues it needs to go down through. In this case, it will use the <b>Location Queue</b>. Once the notification is</p>	<p>The status of the subscribers will be updated, and this can be viewed in the broadcast history. The subscribers are those who are a part of the targets.</p>
	<p>The first row depicts how the Regional Entities will be handled. The first Location, Location 11-2, is part of Region 11, and that region is a child of both Region 1 and All. So, the export and collation will handle the Regional entities configured for <b>Region 11, Region 1 and All</b>. The Regional entities for Region 2 and Region 21 are not included in</p>		



	<p>this context. They will instead be included for the other Location, Location-21-1, that is a part of those Regions. When the Export and Collation has completed there will be individual zip files for each region.</p>	<p>sent it will then be up to the subscribers of the queues to request the files to download.</p>	
	<p>The second row depicts how the Locational Entities will be handled. The locations are the same, so this is the only place where the process will differ. Here the export and collation will handle the location of the entity that the device is a part of.</p>		

## Regional Broadcast – Regions

This section describes, along with an illustration, how data is distributed when broadcasts are sent to **Regions**.



The following table describes each column of the above diagram in detail:

Target	Export & Collation	Notification Queue	Subscriber Status
This is when the predefined broadcast has been configured as <b>Regions</b> in the “Send to” field as the broadcast target, which allows to send the broadcast to only particular regions.	In the Export & Collation stage, the selected entities are checked if it is regional or locational, based on the target specified, which here is the <b>Region</b> .	During the Notification stage, notifications will be sent to inform the target of the files it needs to download. In this case, it will use the <b>Region Queue</b> for Regional Entities and the <b>Location Queue</b> for Locational Entities. Once the notification is sent it will then be up to the subscribers of the queues to	The status of the subscribers will be updated, and this can be viewed in the broadcast history. In this case, the subscribers are part of the locations within the targets.
	The first row show how the Regional Entities will be handled. The first target is Region 11 so that is included automatically. It is also a child of Region 1 and All so they will also be included. The export and collation will therefore handle the Regional entities configured for <b>Region 11, Region 1 and All</b> . For the second target		

	Region 21 and Region 2 will be included for similar reasons. Region 21 also has child regions of its own, Region 211, Region 212, and Region 213. When the Export and Collation has completed there will be individual zip files for each region.	request the files to download.	
	The second row shows how the Location Entities will be handled. For the first target, Region 11, there are two locations that are a part of it, Location 11-1 and Location 11-2. Any locations for Region 1 or All are ignored. The second target, Region 21, has one location, Location 21-1. Again, locations for Region 2 or All are ignored. Since Region 21 has child regions (Region 211, Region 212, and Region 213), their locations which are Location 211-1, Location 212-1, and Location 213-1 will also be included.		

**Note:** Once the regional and locational entities are configured, they can be selected in the Predefined Broadcast and the Data Broadcaster can then be used to send the Regional Broadcasts to the appropriate targets. These steps are covered comprehensively in the **“How-to Guide for Configuring Data and Regional Broadcasting”**.

# About This Document

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The amendment history of this document can be found in the table below.

## Current Document Version information

### Document Context

This document is part of the Enactor Product Documentation Series. All Enactor products include a comprehensive documentation set designed to improve understanding of the product and facilitate ease of use.

### Document Inquiries

At Enactor we aspire to producing the highest quality documentation to reflect and enhance the quality of our product. If you find that the document is inaccurate or deficient in any way, please assist us in improving our standard by letting us know.

For matters of document quality or any other inquiries regarding this document please contact:

By Email: [documentation@enactor.co.uk](mailto:documentation@enactor.co.uk)

# Document History

The following versions of the document have been produced:

VERSION	STATUS	ISSUE DATE	AUTHOR	REASON FOR ISSUE
1.0	Initial Draft			Initial version