

Manual ImpEx

- [Overview](#)
- [ImpEx operations](#)
 - [Import](#)
 - [Export](#)
- [Data groups](#)
- [Default ImpEx Configurations](#)
 - [Default import groups](#)
 - [Images import](#)

Overview

Each import or export operation is defined by an descriptor, which specifies which data is targeted by the operation and which service must be used to execute the operation.

Descriptors are grouped into groups for convenience. For example import group may allow use of zip archive containing multiple files each of which can use a different descriptor in order to perform the import action.

You can perform import and export from the operations sections of Admin.

ImpEx operations

Import

Import process has the following steps:

- Create new import task using import group of choice
- Upload data file (or archive with data files), alternatively you can use a pre-uploaded file as well (use filter input or refresh button to see these files)
- Click "Run"

During the operation execution detailed logging is provided in log window. At the end of the run the status of the import will be displayed.

If uploaded file does not appear in the file list click refresh button to display latest list of files

Successfully imported files automatically get moved to archive and will not appear in this list

DEMO ENVIRONMENT

Logged in as Yes

Import

Press plus button to add new task

Import

Location import

Prices, Promotions and Taxes import

Product import (Products, SKUs and attribute values)

Shops and Warehouses import

Site import

YC DEMO: IceCat Catalog

YC DEMO: Initial Data

YC DEMO: Product images (iceCat)

Cancel

Select

Current Activity

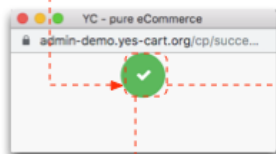
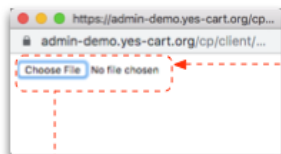
Selected Import Group

Use upload button to add new files

Refresh to see previously uploaded files or use filter to search for them

If the file does not appear after upload try using refresh button

Confirmation that file has been uploaded. Click the button to close the window



Import / (1) YC DEMO: Initial Data

1 YC DEMO: Initial Data

import://2019-11-09_141817/untitled.txt

Import/Export can take some time. Status updates will be received every 15 seconds

Press play button to run the task 

Import / (1) YC DEMO: Initial Data

1 YC DEMO: Initial Data ✕

import://2019-11-09_141817/untitled.txt

1a863d8a-b96f-4391-9741-eea5d17c3745

Current status: finished

Job completed successfully

Progress Log

INFO: Import descriptor shopcurrencies-demo.xml has 0 file(s) with mask shopcurrencies(,).csv(,) to import
 INFO: Import descriptor countrynames-demo.xml has 0 file(s) with mask locations(,).csv(,) to import
 INFO: Import descriptor statenames-demo.xml has 0 file(s) with mask locations(,).csv(,) to import
 INFO: Import descriptor carriernames-demo.xml has 0 file(s) with mask carriernames(,).csv(,) to import
 INFO: Import descriptor carriershopnames-demo.xml has 0 file(s) with mask carriershopnames(,).csv(,) to import
 INFO: Import descriptor carrierslanames-demo.xml has 0 file(s) with mask carrierslanames(,).csv(,) to import
 INFO: Import descriptor promotionnames-demo.xml has 0 file(s) with mask promotionnames(,).csv(,) to import
 INFO: Import descriptor promotioncouponnames-demo.xml has 0 file(s) with mask promotioncouponnames(,).csv(,) to import
 INFO: Import descriptor skuprices-demo.xml has 0 file(s) with mask skuprices(,).csv(,) to import
 INFO: Import descriptor taxnames-demo.xml has 0 file(s) with mask taxnames(,).csv(,) to import

Job log contains details information on this import

Export

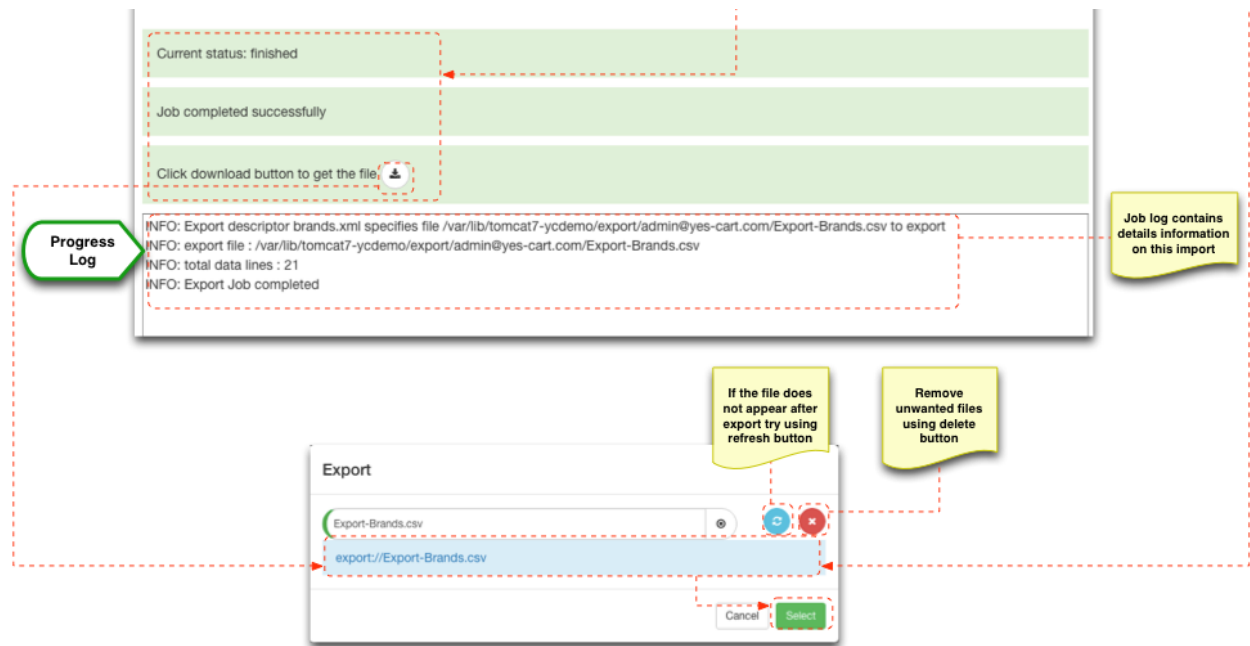
Export process has the following steps:

- Create new export task using export group of choice
- Choose export file filename
- Click run

During the operation execution detailed logging is provided in log window. At the end of the run the status of the export will be displayed and a download button will appear to download the generated data export file.

If exported file does not appear in the file list click refresh button to display latest list of files

You can delete unwanted files by selecting them and click delete button in the file selection window



Data groups

Configuring data groups is a technical task, which will be performed by system administrator. Business user will only need to select appropriate data groups once they have been configured.

Configuration of data groups can be done from the System > Data Groups section of Admin app.

Data descriptors (System > Data Descriptors section) describe what data needs to be imported/exported and which service to use.

Descriptor type	Declaration format	Data format	Purpose	Version
WEBINF_XML/CSV (WEBINF_XML)	XML	CSV	Generic descriptor defined in an XML file located in WebInf of Admin app (i.e. bundled with app and not editable)	
RAW_XML/CSV (RAWINF_XML)	XML	CSV	Generic descriptor defined in an XML format directly in value field	3.5.0+
WEBINF_XML/XML	XML	XML	Generic descriptor defined in an XML file located in WebInf of Admin app (i.e. bundled with app and not editable)	3.5.0+
RAW_XML/XML	XML	XML	Generic descriptor defined in an XML format directly in value field	3.5.0+

Data group (System > Data Groups section) group data descriptor(s). It is possible to limit access to specific data groups by using qualifier field. If set to shop code the group will be visible only to those admin users that have access to this shop. Therefore different setup can be applied depending the shop needs.

Data groups appear in the data group selector of either import or export wizard depending on configurations set in data group.

Create data descriptor

The screenshot shows the 'Data descriptors' page in the Data Science Studio interface. The page has a header with a 'DEMO ENVIRONMENT' label and a 'Logged in as Yes' status. Below the header, there is a search bar and a table of data descriptors. The table has two columns: 'Name' and 'Type'. The 'Name' column lists various XML files, and the 'Type' column lists 'WEBINF_XML'. A red dashed box highlights the top right corner of the table, specifically the '+' icon in the header row.

Name	Type
attributegroupnames-demo.xml	WEBINF_XML
attributegroupnames.xml	WEBINF_XML
attributenames-demo.xml	WEBINF_XML
attributenames.xml	WEBINF_XML
brandimages.xml	WEBINF_XML
brandnames-demo.xml	WEBINF_XML
brandnames.xml	WEBINF_XML
carriernames-demo.xml	WEBINF_XML
carriernames.xml	WEBINF_XML
carriershopnames-demo.xml	WEBINF_XML

The screenshot shows the "Data descriptors" section of a web application. At the top right, it says "DEMO ENVIRONMENT" and "Logged in as Yes". The main area has a tab labeled "Main". Below the tab, there are three sections:

- Name:** A text input field containing "export/shop10/shop_content.xml".
- Type:** A dropdown menu set to "Raw XML/XML".
- Configuration:** A large text area containing XML schema configuration code.

A red dashed box highlights the Name and Type fields, and another red dashed box highlights the Configuration field. Red arrows point from the top toolbar icons to these highlighted areas: a left arrow to the Name field, a plus icon to the Type field, and a save icon to the Configuration field.

```
<export-descriptor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="file:///./domain-api/src/main/resources/META-INF/schema/export-descriptor-xml.xsd">
  <context>
    <shop-code>SHOIP1</shop-code>
  </context>
  <entity-type>org.yes.cart.domain.entity.Shop</entity-type>
  <export-file-descriptor>
    <file-encoding>UTF-8</file-encoding>
    <file-name>target/shopcontent_export-[timestamp].xml</file-name>
  </export-file-descriptor>
  <select-cmd>select s from ShopEntity s where s.code = 'SHOP10'</select-cmd>
  <xml-handler>SHOPCONTENT_CMS3_PRETTY</xml-handler>
</export-descriptor>
```

Create data group

Data groups

Name	Type	Qualifier	Descriptors
YC DEMO: Initial Data	IMPORT		shopcurrencies-demo.xml , countrynames-demo.xml , statenames-demo.xml , carriernames-demo.xml , carriershopnames-demo.xml , carrierslanames-demo.xml , promotionnames-demo.xml , promotioncouponnames-demo.xml , skuprices-demo.xml , taxnames-demo.xml , taxconfignames-demo.xml , brandnames-demo.xml , attributenames-demo.xml , attributegroupnames-demo.xml , producttypenames-demo.xml

YC DEMO: IceCat Catalog	IMPORT	categorynames-demo.xml, shopcategory-demo.xml, productypeattributeviewgroupnames-demo.xml, productypeattrnames-demo.xml, productnames-demo.xml, productsku-demo.xml, productsattributes-demo.xml, productskuattributes-demo.xml, skuinventory-demo.xml, skuprices-demo.xml, productcategorynames-demo.xml, productaccessories-demo.xml
YC DEMO: Product images (IceCat)	IMPORT	productimages.xml
Catalog import (Categories and attribute definitions)	IMPORT	brandnames.xml, attributenames.xml, attributegroupnames.xml, producttypenames.xml, categorynames.xml, shopcategory.xml, productypeattributeviewgroupnames.xml, productypeattrnames.xml
Product import (Products,	IMPORT	productandcategorynames.xml, productnames.xml, productcategorynames.delete.xml, productcategorynames.xml, productsku.xml, productsattributes.delete.all.xml, productsattributes.delete.xml, productsattributes.xml,

Data groups

Main Localization

Qualifier
SHOP10

Type
EXPORT

Descriptors
export/shop10/shop_content.xml

Reference all descriptors by name. For import can be multiple comma separated

Data groups

Main Localization

Name
default value
Shop 10 CMS/3 XML export

Language
Value

DEMO ENVIRONMENT

Export

shop 10

Shop 10 CMS/3 XML export

Cancel Select

Default ImpEx Configurations

Note that import and export groups can be added manually from the Admin panel using data descriptors and data group definitions. In versions 4.1.0+ it is also possible to download templates directly from Admin for each data groups, which includes sample file, descriptor configuration and readme instructions for each import and export file.

Default import groups

Group	Descriptor	Security	Shop access required for	Notes
YC DEMO: Initial Data	shopcurrencies-demo.xml, countrynames-demo.xml, statenames-demo.xml, carriernames.xml, carriershopnames-demo.xml, carrierslanames.xml, promotionnames.xml, promotioncouponnames.xml	ROLE_SMADMIN		This is for data in env/sampled/data/demo-data/yc/import/import.zip that basic countries and carries information so that we can complete checkout in demo store.
YC DEMO: IceCat Catalog	brandnames.xml, attributenames.xml, attributegroupnames.xml, producttypenames.xml, categorynames-demo.xml, shopcategory-demo.xml, producttypeattributeviewgroupnames.xml, producttypeattribnames.xml, productnames-demo.xml, productsku-demo.xml, productsattributes-demo.xml, productskuattributes-demo.xml, skuinventory.xml, skuprices.xml, productcategorynames.xml	ROLE_SMADMIN		This is a sample data kindly provided by IceCat (http://www.icecat.com) and is located in env/sampled/data/demo-data/icecat/import/import-EN, with images for products in env/sampled/data/demo-data/icecat/import/import-EN, that contains an example catalog with product SKUs attributes and also some made up inventory and price. The shop categories are specifically set for SHOP10 group also has some 'unsafe' fast insert descriptors ('-demo') that should not be used in production unless first time data load and the data is clean.
YC DEMO: Product images (IceCat)	productimages.xml	ROLE_SMADMIN		This is the same as regular product and SKU image in a separate directory starting with YC DEMO makes it easy for "new" users.
Catalog import (Categories and attribute definitions)	brandnames.xml, attributenames.xml, attributegroupnames.xml, producttypenames.xml, categorynames.xml, shopcategory.xml, producttypeattributeviewgroupnames.xml, producttypeattribnames.xml	ROLE_SMSHOPADMIN, ROLE_SMMARKETINGADMIN or ROLE_SMADMIN ⚠	ROLE_SMSHOPADMIN, ROLE_SMMARKETINGADMIN	Standard catalog definitions import group. If importing more than just categories then have to have ROLE_SMADMIN
Product import (Products, SKUs and attributes)	productandcategorynames.xml, productnames.xml, productcategorynames.delete.xml, productcategorynames.xml, productsku.xml, productsattributes.delete.all.xml, productsattributes.delete.xml, productsattributes.xml, productskuattributes.delete.all.xml, productskuattributes.delete.xml, productskuattributes.xml, productaccessories.delete.xml, productaccessories.xml	ROLE_SMSHOPADMIN, ROLE_SMWAREHOUSEADMIN or ROLE_SMADMIN ⚠	ROLE_SMSHOPADMIN, ROLE_SMWAREHOUSEADMIN	Product data only. If importing products without categories (productnames.csv, productsattributes.delete.all.csv, productskuattributes.delete.all.csv) need have to have ROLE_SMADMIN
Inventory import	skuinventory.xml	ROLE_SMSHOPADMIN, ROLE_SMWAREHOUSEADMIN or ROLE_SMADMIN	ROLE_SMSHOPADMIN, ROLE_SMWAREHOUSEADMIN	Inventory only
Prices and Promotions import	skuprices.xml, promotionnames.xml, promotioncouponnames.xml	ROLE_SMSHOPADMIN, ROLE_SMMARKETINGADMIN or ROLE_SMADMIN	ROLE_SMSHOPADMIN, ROLE_SMMARKETINGADMIN	Standard group for pricing
Content import	contentnames.xml	ROLE_SMSHOPADMIN, ROLE_SMCONTENTADMIN or ROLE_SMADMIN	ROLE_SMSHOPADMIN, ROLE_SMCONTENTADMIN	Content only
Shops and Warehouses	shop.xml, warehouse.xml	ROLE_SMADMIN		Shops and warehouses
Images: Products and SKU	productimages.xml	ROLE_SMSHOPADMIN, ROLE_SMMARKETINGADMIN or ROLE_SMADMIN	ROLE_SMSHOPADMIN, ROLE_SMMARKETINGADMIN	Product and SKU images import
Images: Category and Content	categoryimages.xml	ROLE_SMSHOPADMIN, ROLE_SMMARKETINGADMIN, ROLE_SMCONTENTADMIN or ROLE_SMADMIN	ROLE_SMSHOPADMIN, ROLE_SMMARKETINGADMIN, ROLE_SMCONTENTADMIN	Category and Content images import
Images: Brands	brandimages.xml	ROLE_SMADMIN		Brand images import

Images: Shop	shopimages.xml	ROLE_SMSHOPADMIN or ROLE_SMADMIN	ROLE_SMSHOPADMIN	Shop images
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DEMO OOTB descriptors should not be used in production. They are blueprints for developers.

This group break down shows different processes of business. So, for example "YC DEMO" groups represent initial data setup, Product import - recurring product updates, inventory and price feeds etc. All of these usually have different cycle periods and this layout is just our recommendation.

Images import

Images import are now triggered by import descriptors.

Main point on image import descriptors:

- entity-type must be IMAGE
- select-sql must be uri for image resolution (e.g. for Category it is /imgvault/category/)
- file-name-mask must contain file mask for images

Example:

```

<import-descriptor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                    xsi:noNamespaceSchemaLocation="http://www.yes-cart.org/x
stream/import-descriptor-1.0.0.xsd">

    <entity-type>IMAGE</entity-type>

    <import-file-descriptor>
        <file-encoding>UTF-8</file-encoding>
        <file-name-mask>^(\.*)_([\^[_]]*)_[a-z](_[a-z]{2})?\.(jpe?g|png)$</f
ile-name-mask>
        <ignore-first-line>false</ignore-first-line>
        <column-delimiter>;</column-delimiter>
        <text-qualifier>&quot;</text-qualifier>
    </import-file-descriptor>

    <select-sql>/imgvault/category/</select-sql>

    <import-columns>

        <column-descriptor>
            <column-index>0</column-index>
            <field-type>FIELD</field-type>
            <data-type>STRING</data-type>
            <name>description</name>
            <value-constant>This is a category/content image
import</value-constant>
        </column-descriptor>

    </import-columns>

</import-descriptor>

```

Import file templates

Columns **E** (**everyday**), **S** (**system**) and **D** (**development**) give a hint as to purpose for given descriptor

- **everyday** descriptor are used for running your web shop (these are designed for business users)
- **system** descriptor are used for configuring the system (these are designed for system administrators)
- **development** descriptors are used for software development to ease process of creation of initial data for the system (these are designed for developers)

E	S	D	Import	Descriptor	Template	Notes
		✓	Attribute group (e.g. SHOP, PRODUCT)	attributegroupnames.xml	attributegroupnames.csv	

	✓	Attribute definitions	attributenames.xml	attributenames.csv	Attribute definitions are shared globally by all stores and hence are responsibility of system administrator
	✓	Product type	producttypenames.xml	producttypenames.csv	Product types are shared globally by all stores and hence are responsibility of system administrator
	✓	Product type attributes link	producttypeattrnames.xml	producttypeattrnames.csv	Product types are shared globally by all stores and hence are responsibility of system administrator
	✓	Product type attributes view groups	producttypeattributeviewgroupnames.xml	producttypeattributeviewgroupnames.csv	Product types are shared globally by all stores and hence are responsibility of system administrator
	✓	Brands images	brandimages.xml	⚠ see table below	Brands are shared globally by all stores and hence are responsibility of system administrator
	✓	Brands	brandnames.xml	brandnames.csv	Brands are shared globally by all stores and hence are responsibility of system administrator
✓	✓	Category and Content images	categoryimages.xml	⚠ see table below	Categories import can be managed by business users if this category is linked to shop they have access to, otherwise managed by system administrator
✓	✓	Category	categorynames.xml	categorynames.csv	Categories import can be managed by business users if this category is linked to shop they have access to, otherwise managed by system administrator
✓		Content	contentnames.xml	contentnames.csv	All content is managed by business users
✓		Product with category assignment	productandcategorynames.xml	productandcategorynames.csv	Catalog management for business users
✓	✓	Product without category assignment	productnames.xml	productnames.csv	Product import can be managed by business users if this product category is linked to shop they have access to, otherwise managed by system administrator
	✓	Only Product category assignments	productcategorynames.xml	productcategorynames.csv	Catalog management for system administrators
	✓	Delete Product category assignments	productcategorynames.delete.xml	⚠ delete.productcategorynames.csv	Use same template as for productcategorynames.csv but starting with delete. to remove category assignments
✓	✓	Product images	productimages.xml	⚠ see table below	Product import can be managed by business users if this product category is linked to shop they have access to, otherwise managed by system administrator
✓		Product attribute values	productsattributes.xml	productsattributes.csv	Catalog management for business users
✓		Delete Product attribute values	productsattributes.delete.xml	⚠ delete.productsattributes.csv	Use same template as for productsattributes.csv but starting with delete. to remove individual product attribute

✓		Delete ALL Product attribute values	productsattributes.delete.all.xml	⚠ delete.all.productsattributes.csv	Use same template as for product attributes.csv but only need to specify product code once (only first column needed)
✓		Product SKU	productsku.xml	productskunames.csv	Catalog management for business users
✓		Product SKU attribute values	productskuattributes.xml	productskuattributes.csv	Catalog management for business users
✓		Delete Product SKU attribute values	productskuattributes.delete.xml	⚠ delete.productskuattributes.csv	Use same template as for product skuattributes.csv but starting with delete. to remove individual product SKU attribute
✓		Delete ALL Product SKU attribute values	productskuattributes.delete.all.xml	⚠ delete.all.productskuattributes.csv	Use same template as for product skuattributes.csv but only need to specify product code once (only first column needed)
✓		Product associations	productaccessories.xml	productaccessories.csv	Catalog management for business users
✓		Delete Product associations	productaccessories.delete.xml	⚠ delete.productaccessories.csv	Use same template as for product accessories.csv but starting with delete. to remove individual product associations
✓		Product inventory	skuinventory.xml	skuinventory.csv	Inventory management for business users
✓		Product prices	skuprices.xml	skuprices.csv	Price management for business users
✓		Promotion	promotionnames.xml	promotionnames.csv	Promotions import for business users
✓		Promotion coupons	promotioncouponnames.xml	promotioncouponnames.csv	Promotions import for business users
✓		Tax definition	taxnames.xml	taxnames.csv	Tax management for business users
✓		Tax configuration	taxconfignames.xml	taxconfignames.csv	Tax management for business users
	✓	Shop instance	shop.xml	shopnames.csv	
	✓	Shop category assignments	shopcategory.xml	shopcategorynames.csv	Category assignments can only be managed by system administrator
	✓	Shop images	shopimages.xml	⚠ see table below	
✓	✓	Shipping carriers	carriernames.xml	carriernames.csv	New carriers have no assignment to shop and hence can only be managed by system administrator, modifications however can be done by the business users
	✓	Shipping carrier to shop assignments	carriershopnames.xml	carriershopnames.csv	This is the linking of carriers and shops can only be updated by system administrator
✓		Shipping configuration	carrierslanames.xml	carrierslanames.csv	Carrier service layer agreement is the shipping method definition stating terms and conditions of the service as well as price
	✓	Countries	countrysnames.xml	countrysnames.csv	Countries information is shared globally by all stores and hence are responsibility of system administrator

	Country states	statenames.xml	statenames.csv	State information is shared globally by all stores and hence are responsibility of system administrator
	Warehouse instance	warehouse.xml	warehousenames.csv	

Image import uses name patterns in order to resolve shop, category, content, brands, products or SKU they belong to

Entity	Filename pattern	Examples
Shop	[PREFIX]_[SHOP_CODE]_[a-z](_LOCALE).[jpe?g png]	If shop code is SHOP10 examples are: myshopimage_SHOP10_a.jpg, myshopimage_SHOP10_a.jpeg, myshopimage_SHOP10_a.png, myshopimage_SHOP10_a_en.jpg
Category and Content	[PREFIX]_[URI GUID]_[a-z](_LOCALE).[jpe?g png]	If category/content URI is 'myuri' and guid 'ABC123' examples are: myimage_myuri_a.png, myimage_myuri_b_en.png, myimage_ABC123_c_uk.png
Brand	[PREFIX]_[NAME GUID]_[a-z](_LOCALE).[jpe?g png]	If brand name is 'Toshiba' and guid 'ABC123' examples are: myimage_Toshiba_a.png, myimage_Toshiba_b_en.png, myimage_ABC123_c_uk.png
Product or SKU	[PREFIX]_[PRODUCTCODE SKUCODE]_[a-z](_LOCALE).[jpe?g png]	If code is 'ABC123' examples are: myimage_ABC123_a_uk.png, myimage_ABC123_a_en.png, myimage_ABC123_a_ru.png