Setup a new Data Mapper

The UserSync Module gives you many options of importing and synchronizing external data with Sitecore.

Choose your import type
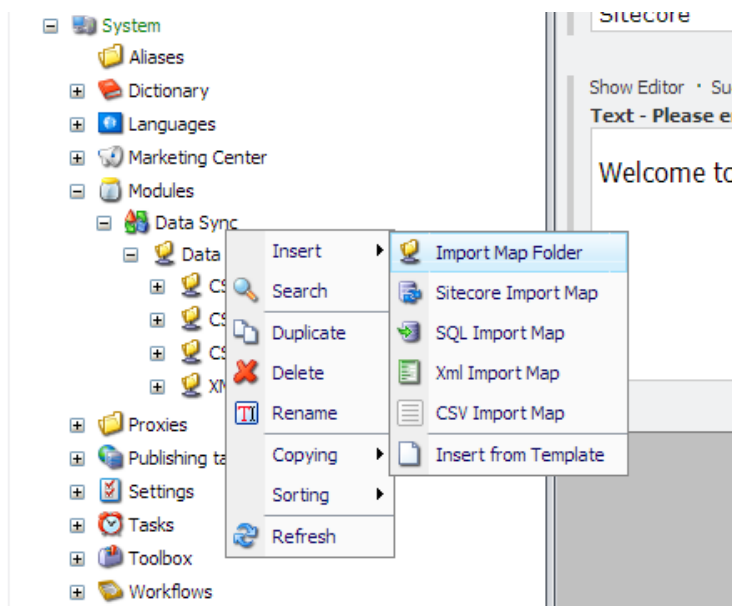
First of all you need to define where you data is coming from.
The modules comes with the following DataMap options:

1) XmlDataMap
2) CSVDataMap
3) SitecoreDataMap
4) SQLDataMap

You can quite easy extend and add new DataMap objects.

For this guide we choose the XmlDataMap.

Choose your import format/source

When you have chosen the import data type, you need to get the data into the Datamapper.
There are some standard implementations that you can choose from, or you can extend to custom sources.

1) XmlDataMap: The options shipped with the module is: a) Add the xml in the Data field directly, or b) upload a file through the Data Sync wizard.
Then provide a xPath Query to your elements that you want to look through.
2) CSVDataMap: Add the csv text to the Data field.
3) SQLDataMap: Add a DataSource connection string, and a SQL Query in the Query field.

For this guide we paste in an example xml, shown here:

```
<?xml version="1.0" encoding="utf-8" ?>
<categories>
 <category code="1" title="Category1" parent="0"></category>
 <category code="2" title="Category2" parent="0"></category>
 <category code="3" title="Category3" parent="0"></category>
 <category code="4" title="Category4" parent="0"></category>
 <category code="5" title="Category5" parent="0"></category>
 <category code="6" title="Category6" parent="0"></category>
```

```
    <category code="7" title="Category7" parent="0"></category>
    <category code="8" title="Category8" parent="0"></category>
    <category code="9" title="Category9" parent="1"></category>
    <category code="10" title="Category10" parent="1"></category>
    <category code="11" title="Category11" parent="2"></category>
    <category code="12" title="Category12" parent="3"></category>
    <category code="13" title="Category13" parent="4"></category>
    <category code="14" title="Category13" parent="4"></category>
    <category code="15" title="Category15" parent="4"></category>
  </categories>
```

For the Xml DataMapper we also need to define a Query to locate the elements in the xml. This is a XPath Query, and we add the following:

/categories/category

Choose to where you want your items to go

Select the root item where you want to your items to be imported/synced to. You do this by adding an item to the field "Import to Where":

The module will create a new version in the language you specify. The default behaviour is to create only one language version in the defined language.

If you want to limit the number of imported elements add a number in the field.

Define which template to use for the imported items

The module will create a new item if it cannot locate it in Sitecore. You define which template to use for the item creation:

Advanced options! You can set the import up to create items based on more than one template.

Choose how you want to stucture your import data

The DataSync module comes with several ready to use ways of structuring the synchronized data items:

1) Folder by Date: Uses a date string on the import data to determine where to place the item - ie 2013/12/14.
2) Folder By Name: Uses the Item Names first letter to create a subfolder and place the item in - ie a/Apple, b/Banana
3) Folder By Parent Hierarchy: The import data has information regarding the parent structure and the data will be placed in the defined parent.
4) No not folder: Will place the items in the root folder (good option if you have limited items or use ItemBuckets.

Item Foldering

Option 1 - Folder By Parent Hierarchy (If more than one option is selected, this is default) [shared]:
☑

Identify Parent By What Field On Import Row [shared]:
parent

Identify Parent By What Field On Parent [shared]:
Code

Identify Root Level Folders By What Value (This indicates what value that indicates that the folder are root level folders, ie "0" or "") [shared]:
0

Option 2 - Folder By Date [shared]:
☐

Date Field [shared]:

Option 3 - Folder By Name [shared]:
☐

Opsjon 4 - Do Not Create Folders (Default is none of the options is selected) [shared]:
☐

Folder Template - Defaults to Common Folder [shared]:

Do Not Move Item To Parent From Import [shared]:
☐

Example:

In out categories.xml example, the xml defines an attribute "parent", which has a int, that corresponds to the code attribute.
Here we have a item parent relation, that we can use.

```
<category code="8" title="Category8" parent="0"></category>
<category code="9" title="Category9" parent="1"></category>
<category code="10" title="Category10" parent="1"></category>
```


Item Foldering

Option 1 - Folder By Parent Hierarchy (If more than one option is selected, this is default) [shared]:
☑

Identify Parent By What Field On Import Row [shared]:
parent
Points to the attribute that defines the parent of the element.

Identify Parent By What Field On Parent [shared]:
Code
Indicates which field on the item in Sitecore, that contains this key for the parent.

Identify Root Level Folders By What Value (This indicates what value that indicates that the folder are root level folders, ie "0" or "") [shared]:
0

Choose if you want to keep your items synchronized or not

This is the center of the module, and where the power is shown.

Item Syncronization

Sync Folder By Updating Already Existing Items [shared]:
☑

Identify The Same Items By Field [shared]:

Code

If you want your data to be updated - that means the same item to be recognized by a key value, and updated, you select the box. If you want the import to add new items every time the import is run, uncheck it.
This feature is very usefull when you want to import products, listelements, news, etc.

If the box is checked, you also need to define which field to identify a item unique on.

In our example, we select the field "Code" on the item.

Select how you want to name you items

Item Naming

Pull Item Name from What Fields - comma delimited [shared]:

title

> Used to draw a value to use to generate the name of the item. Can be concatenated by several fields.

Item Name Max Length [shared, standard value]:

65

Update Item Name [shared]:
☑

> If selected the item name will be updated if the value defined above has changed from the import.

On Duplicate Item Names Generate Postfix Number [shared]:
☑

> This ensures that the item is reachable with a unique

Validate If Item Key Is Unique [shared]:
☐

> If selected a validation of the items key willb e performed, to ensure that the item has an unique URL.

Optionally you can select if you want to keep the imported data in sync with the data in the Import Data

What this allows you to do is to keep Sitecore 1 to 1 with you external system - like an ERP system.

Note! You import data needs to include all data for this to work.

If you have 1400 products in the import file, then Sitecore will make sure that you have 1400 products in your import folder.

The items that is not present in the import data, will be moved to a specified folder.

Item Disabling After Import

Disable Items Not Present In Import [shared]:
☑

Disable Items Folder [shared]:

sitecore/content/Examples/XMLStructureByParentHierarchy/Disabled Items/Products

If an item later on is added again to the import data, then the module will look in the defined "Disabled items" folder and move the first match it finds. This makes it possible to keep previous data, that the user has enriched the item with, like images, etc.

Select you notification options

The module will log all errors that occurs during the processing of the import data. The processing will always run to end and collect errors that happens on the way.
A status of key counters will also be summed up, like this:

> The import completed successfully.
>
> Status:
> ProcessedItems: 15
> CreatedItems: 15
> RenamedItems: 1
> ItemNameRegeneratedItems: 1
> UpdatedFields: 15
> SucceededItems: 15

You can select if you want to receive this on mail and if you only want to receive the mail if an error occurs.

⬤ Notification

Do Not Send Mail On Success (Only Error Reports will be sent) [shared]:
☐

Mail Recipients [shared]:
kasper@netlab.no

Mail Reply To [shared, standard value]:
noreply@nowhere.com

Mail Subject ({0} will be replaced by DataSync item name. {1} will be replaced by 'Success' or 'Failure') [shared, standard va
Status report mail from DataSync task - {0} - Result: {1}.

⬤ Logging

Do Not Log Progress Status Messages In Sitecore Log [shared]:
☑

Filer

AddFolder.png	32.7 KB	10.12.2013	Kasper Pagels
Categoriesxml.png	32.7 KB	10.12.2013	Kasper Pagels
importoptions.png	7.4 KB	10.12.2013	Kasper Pagels
templatetype.png	5.8 KB	10.12.2013	Kasper Pagels
ItemFoldering.png	25.4 KB	10.12.2013	Kasper Pagels
parent.png	26 KB	10.12.2013	Kasper Pagels
synchronization.png	6.8 KB	10.12.2013	Kasper Pagels
itemnaming.png	34.7 KB	10.12.2013	Kasper Pagels
Disabling.png	8.1 KB	10.12.2013	Kasper Pagels
notification.png	17.7 KB	10.12.2013	Kasper Pagels
status.png	4.1 KB	10.12.2013	Kasper Pagels