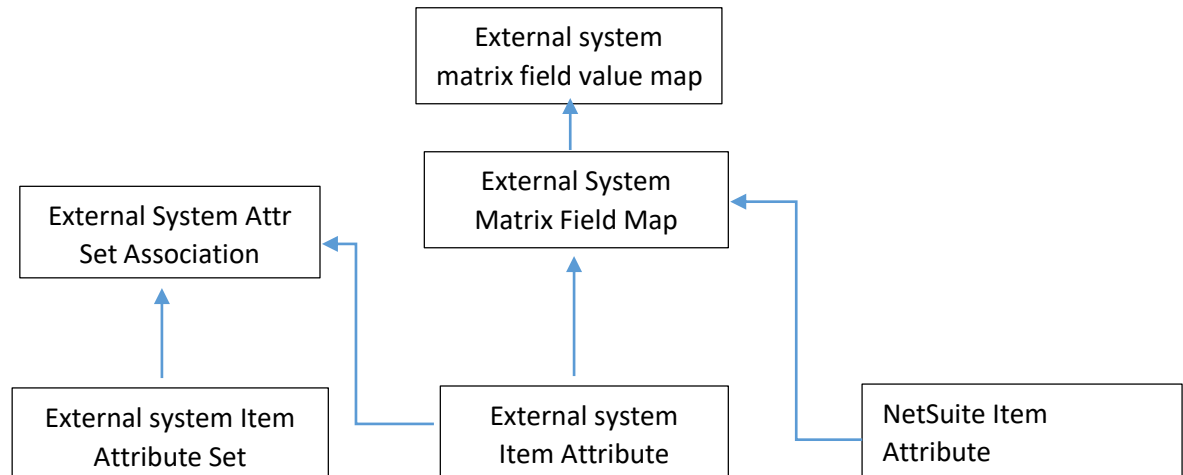Following is the hierarchy that the NetSuite connector follows for the Mapping of NetSuite Fields to External System fields.

Following this hierarchy, in order to get the attribute syncing from NetSuite to Magento, we need to follow the bottom up approach, filling each of the above records respectively to map NS field to a Magento Field.

1- [Create Custom field in NetSuite along with custom lists in case of select/multiselect fields](#).
2- [Populate the NetSuite Item Attribute Record](#).
3- [Populate the External System Item Attribute Record](#).
4- [Populate the External System Matrix Field Map Record](#).
5- [Populate External system matrix field value map Record](#).
6- [Populate External System Attr Set Association Record](#).

We would be following the above steps in order to make our **Product Type** field in NetSuite to sync to Magento's **product_type** attribute in __default attribute,__ attribute set in Magento. Please see that our connector syncs the compulsory fields in Magento by default such as *quantity, sku product description, short description, weight, status, meta_keyword, meta_title, meta_description, visibility, tax_class_id*.

1-Create Custom Field in NetSuite along with custom lists in case of select/multiselect fields.

(Refer to NetSuite Help for creating a custom field). However steps performed are provided for quick reference to the procedure.

a- go to customizations->new field
b- create new field as label *"Magento Color".* Select field type as list/record.
c- Create a new custom list representing all the options that are available for selection in the corresponding Magento attribute select list. (In case of a text field, ignore this step).
d- Under display select appropriate tab and position where it should be displayed. In our case, the field is being displayed under matrix tab.

Custom List:

Custom List

[Save] [Reset] [Cancel]

NAME *
Mg Color

ID
_f3_mg_color_option

OWNER
Integrated Services

DESCRIPTION

SHOW OPTIONS IN: ⦿ THE ORDER ENTERED ○ ALPHABETICAL ORDER
☑ MATRIX OPTION LIST
☐ INACTIVE

VALUE *	INTERNAL ID	ABBREVIATION *	INACTIVE
color_white		CLR-WHITE	
color_black		CLR-BLK	
matrixclear		MAT-CLR	
jewel_gold		JEWEL-GLD	

Custom Field For Color:

Custom Item Field

[Save ▼] [Cancel] [Reset] | [Apply to Forms]

LABEL *
Magento Color

ID
_f3_mg_color

OWNER
Integrated Services

DESCRIPTION

☑ MATRIX OPTION

TYPE
Multiple Select

LIST/RECORD
Mg Color

☑ STORE VALUE ☐ USE ENCRYPTED FORMAT

Applies To | **Display** | Validation & Defaulting | Sourcing & Filtering | Access

INSERT BEFORE

SUBTAB
Matrix

DISPLAY TYPE
Normal

DISPLAY HEIGHT

HELP

2- Populate the NetSuite Item Attribute Record.

1- Give appropriate name to the record and external system. And then proceed to filling out remaining fields.

2- In **NS ITEM ATTRIBUTE ID,** place the internalId of the field mapping to external attribute. In our case it is the internalId of the **Magento Color** field we have created.

3- Select the field type in **NS ITEM ATTRIBUTE TYPE**

4- Enter the internalId of the custom list to which this field is linked to in **NS CUTOM LIST ID**. In our case it is the custom list we created with the name **Mg Color.** and the name of the custom list (**NS CUSTOM LIST NAME**) (make sure to leave these fields empty in case it is representing a non-select/multiselect field)

5- In case the field is to be used by only simple product, then leave the **USE FOR VARIANT PRODUCT** checkbox unchecked in our case It is to be for variant so we check it.

3- Populate the External System Item Attribute Record.

1- in **NAME** field enter the name of the attribute corresponding to the external system.

2- In **ITEM ATTRIBUTE TYPE** select the type of field in Magento being represented by that field.

3- Select **EXTERNAL SYSTEM** TO which apply the configuration to.

4- In **ITEM ATTRIBUTE ID** and **ITEM ATTRIBUTE CODE** enter the corresponding Magento attribute's id and code against that specific attribute in Magento store. In our case, it is colornew for attribute code and 151 for item attribute id in the Magento DB.

4- Populate the External System Matrix Field Map Record.

1- Enter the name of the attribute in the **NAME.**

2- Select the external system under the **EXTERNAL SYSTEM** dropdown you want the attribute to apply to.

3- From the dropdown, *EXTERNAL SYSTEM ITEM ATTRIBUTE,* select the attribute that you registered in the **External System Attribute** record. In our case we registered the record with name "Mg Color".

4- From the dropdown, *NETSUITE ITEM OPTION FIELD.* Select the NetSuite attribute we registered in the *NETSUITE ITEM ATTRIBUTE* record. In this case, we registered it as Mg Color.

External System Matrix Field Map   List   Search   Custom

Save ▼ | Cancel | Reset

| NAME * | EXTERNAL SYSTEM SORT ORDER NO | DETAILS |
| Mg Color Map | | |

☐ INACTIVE

EXTERNAL SYSTEM
SKECH MAGENTO 2 ▼

EXTERNAL SYSTEM ITEM ATTRIBUTE
Mg Color ▼   attribute of external system

NETSUITE ITEM OPTION FIELD
Mg Color ▼   attribute field in NS

Attribute set in Magento

EXTERNAL SYSTEM ATTRIBUTE SET ID
Mangento Default Attribute ▼

EXTERNAL SYSTEM NODE ID
▼

5- Populate External system matrix field value map Record.

Follow this step-in case select fields are being mapped to magneto's select fields. During this section we will be mapping the internalids of the values in custom list associated with the NetSuite dropdown field to the Magento dropdown options' value. In our case we will be mapping the internalids of the *Mg Color* NetSuite's field options to Magento's *Mg Color* select option's value.

1- Enter the name of the attribute option that appears in NetSuite/Magento UI in *NAME* field.
2- Select the external system to enable specific *ITEM MATRIX FIELD MAP.*
3- Under the dropdown in *ITEM MATRIX FIELD MAP,* select the appropriate attribute map for NetSuite field to Magento field that was created In the **Item Matrix Field Map** record.
4- In NetSuite Matrix Field Value, enter the internal Id for the option for which the mapping is being created. This value corresponds to the internalId of one of select option of the NetSuite's **Product Type I.e. Board Only.** This value was read against the "Board Only" option from the custom list that was associated with the Product Type custom list in step 1.
5- Similarly, *Other System Matrix Field Value* will be populated with the corresponding value of the select option of the field in Magento store.

External System Matrix Field Value Map   List   Search   Customize   More

Save ▼ | Cancel | Reset

NAME *
Board Only

☐ INACTIVE

EXTERNAL SYSTEM
Folio3 Magento ▼

ITEM MATRIX FIELD MAP
Product Type ▼

NETSUITE MATRIX FIELD VALUE
7

OTHER SYSTEM MATRIX FIELD VALUE
2917

DETAILS

This step will be repeated for all the select values in NetSuite in order for them to be mapped to External System. Otherwise item sync may not work properly in case invalid value is selected for which no mapping has been created. In our case after populating the **External System Matrix Field Value Map** record for mapping the values of *NetSuite/Magento Product Type* fields, the record looks something like this;

NEW	EDIT | VIEW	INTERNAL ID	NAME	EXTERNAL SYSTEM	ITEM MATRIX FIELD MAP ▾	NETSUITE MATRIX FIELD VALUE	OTHER SYSTEM MATRIX FIELD VALUE
	Edit | View	1802	Adjustable Flow Feeder	Folio3 Magento	Product Type	20	58799
	Edit | View	1107	Air Pillows	Folio3 Magento	Product Type	16	2916
	Edit | View	1108	Board Only	Folio3 Magento	Product Type	7	2917
	Edit | View	2104	Canopy Umbrella	Folio3 Magento	Product Type	22	58906
	Edit | View	1803	CO2 Feeder	Folio3 Magento	Product Type	21	58800
	Edit | View	1109	Feeder & Tank Combo	Folio3 Magento	Product Type	3	2918
	Edit | View	1110	Feeder Only	Folio3 Magento	Product Type	2	2919
	Edit | View	1804	Fixed Flow Feeder	Folio3 Magento	Product Type	2	2919
	Edit | View	1111	Floats	Folio3 Magento	Product Type	12	2920
	Edit | View	1112	Hooks	Folio3 Magento	Product Type	14	2921
	Edit | View	1113	In-Line Feeder	Folio3 Magento	Product Type	18	2922

6- Populate External System Attr Set Association Record.

Until now we have created the mapping of fields from NetSuite to Magento, then created the mapping of the values of the fields in NetSuite to Magento with their ids. Last step for the mapping to work is to register this mapping to its appropriate Attribute Set in External System. In our case we were to map the **Product Type** field from the **DEFAULT ATTRIBUTE SET** in Magento. Hence, we would be following the procedure as described below.

1- Select the External System from the dropdown to which to apply the mapping.
2- Select the Attribute Set to which the mapping would apply. ([Click here to see how to set the attribute set mapping](#)).
3- Select the Item Attribute to associate it with the attribute set to in Magento.

If all the procedures are followed properly and as described in the document, all records are filled appropriately, then item attribute should sync properly from NetSuite field to Magento's field.

External System Attr Set Association

Save ▾   Cancel   Reset   ⊕▾ Actions▾   → List Search Customize More

OWNER
V1207 Folio3

DATE CREATED
3/14/2018 3:08 am

LAST MODIFIED   BY
3/14/2018 3:08 am V1207

☐ INACTIVE

EXTERNAL SYSTEM
Folio3 Magento ▾

ATTRIBUTE SET
Default ▾

ITEM ATTRIBUTE
Product Type ▾

Setting Attribute Set Mapping:

In order to guide through setting of the attribute set mapping, we would be focusing in the following scenario.

We want to sync our fields from NetSuite to External System's attributes that are part of *DEFAULT ATTRIBUTE SET* in Magento. Hence, we need to register our **Default Attribute Set** in NetSuite to associate the NetSuite fields to the particular attribute set.

In order to set the attribute set mapping for the external system, open the *External System Item Attribute Set* record and follow the procedure as described below.

1- In *NAME* field, enter the name of the attribute set as displayed in Magento. (in our case it is Default)
2- Select the external system to which the attribute set must apply in *EXTERNAL SYSTEM*. (in our case Magento).
3- Enter the ID of the attribute set as in Magento. (In our case we are registering the default attribute set whose ID is 4 in Magento).

Other fields can be ignored and user can proceed towards creating the fields and field/value mapping for the NetSuite Item Fields to Magento Item Attributes.

External System Item Attribute Set

Save	Reset	Cancel

NAME *
Default

☐ INACTIVE

EXTERNAL SYSTEM
Folio3 Magento ▼

ITEM ATTRIBUTE SET ID
4

ITEM ATTRIBUTE SET CODE

ITEM ATTRIBUTE SET DETAILS