

Tutorial

SemTalk

Version 4.4

SharePoint Integration for SemTalk

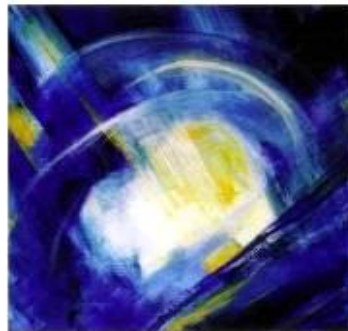


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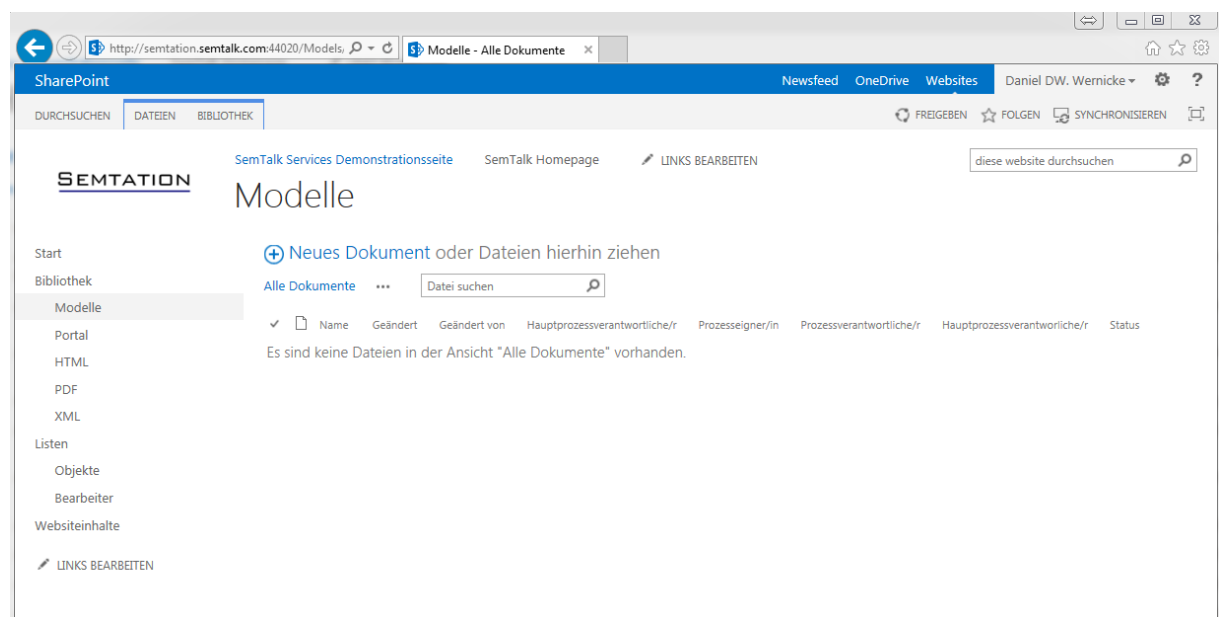
Introduction

This tutorial is divided into two parts. The first part explains the login, save, load file and attach file connections between SemTalk and SharePoint. The second part is about how to use SharePoint lists as an object repository. Both parts contain links to a short demo video.

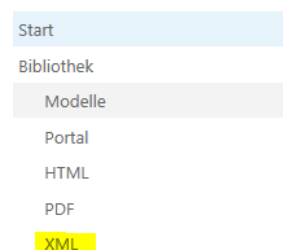
Document Management Features

SharePoint Video Part 1: <http://www.youtube.com/watch?v=XGiAgh9AoFs>

Please make sure you have access to a SharePoint document library where you are allowed to save Visio documents. You may use predefined libraries such as “Shared Documents” or create your own document library¹.

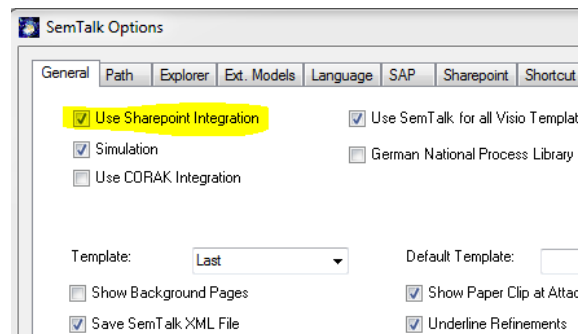


We recommend creating a second document library named “XML”. This library is used by SemTalk to store SemTalk XML files. Versioning and Check-in/Check-out should be disabled. The library can be hidden from the menu.

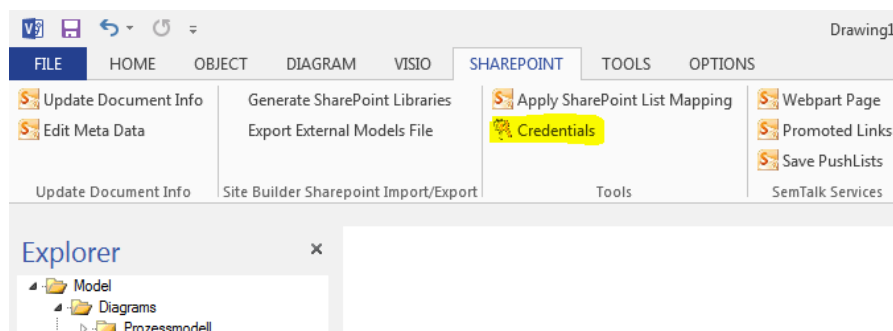


¹ To create a library use **Site Actions** and choose **New Document Library**

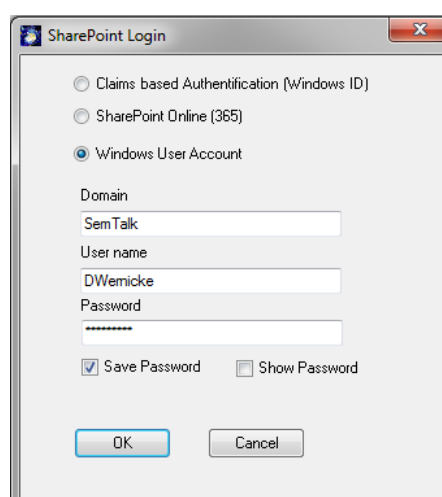
SharePoint integration in SemTalk must be enabled before it can be used. **Options-> SemTalk Options ->General: Option 'Use SharePoint Integration'**



If you do not have direct access to SharePoint using your Windows credentials, SemTalk will prompt you for your SharePoint credentials. You can also add your credentials from the menu: **SharePoint -> Credentials**.

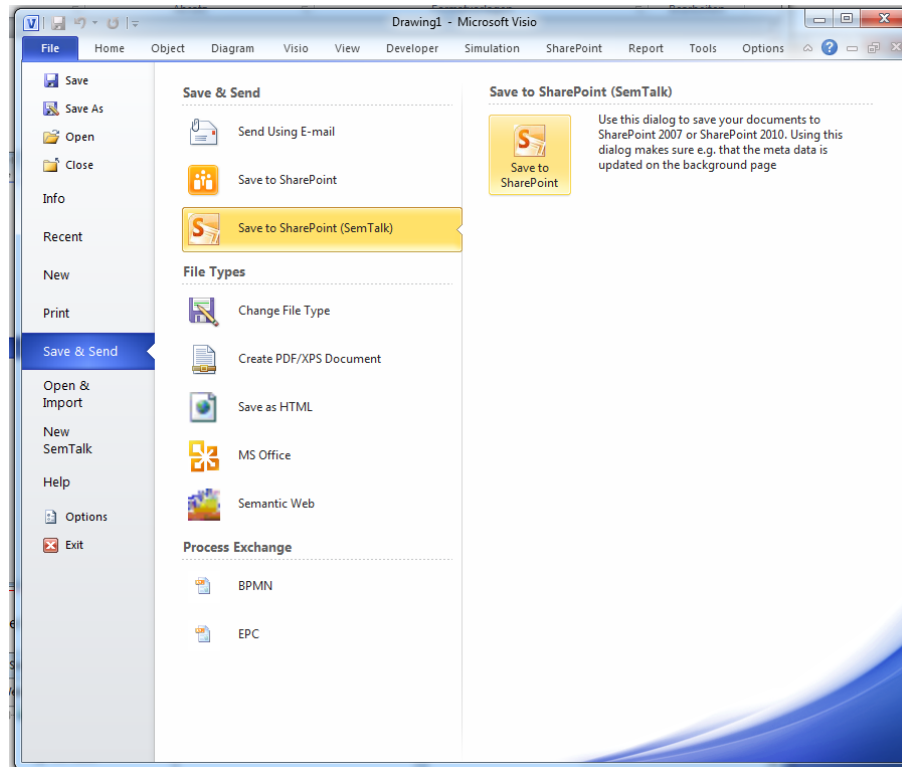


Please make sure to enter the domain part of your credentials in the textbox „Domain“. This is specifically the Domain, not the URL of your SharePoint server. If you log into SharePoint, similar to the “SHAREPOINT\username”, the textbox “Domain” should have the value “SHAREPOINT” and the textbox “User name” should get the value “username”.

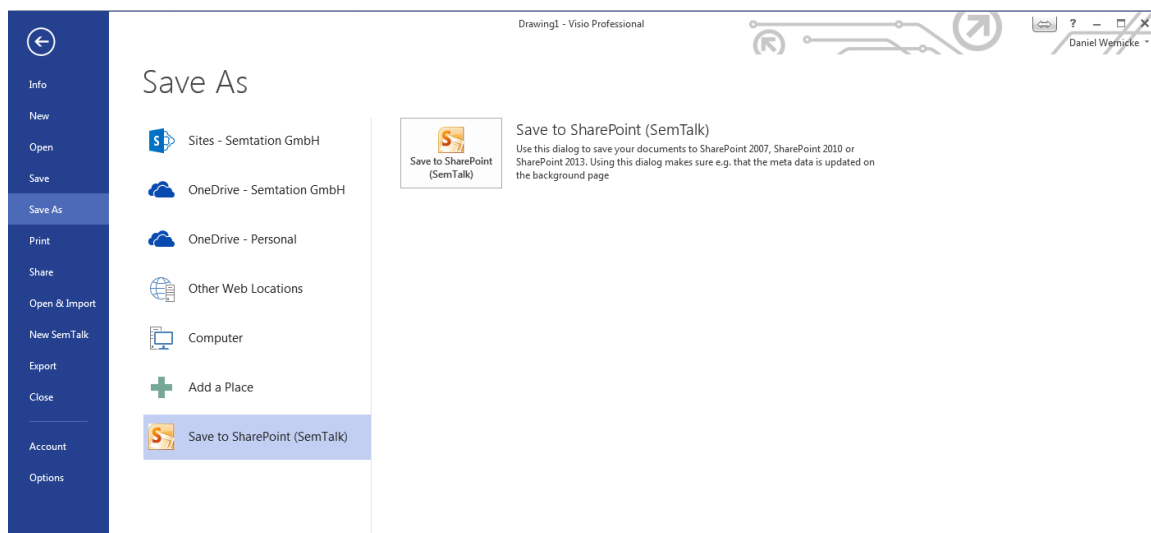


Saving Documents to SharePoint

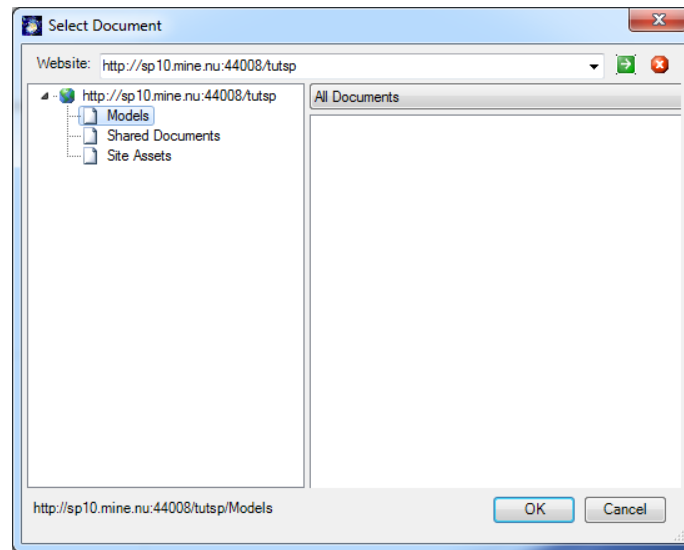
Documents can be saved to a SharePoint document library from SemTalk. Please use for Visio 2010 the function **File → Save & Send → Save to SharePoint (SemTalk)**.



If you use Visio 2013 then you find this function under **File → Save As → Save to SharePoint (SemTalk)**



Next select the library or folder.

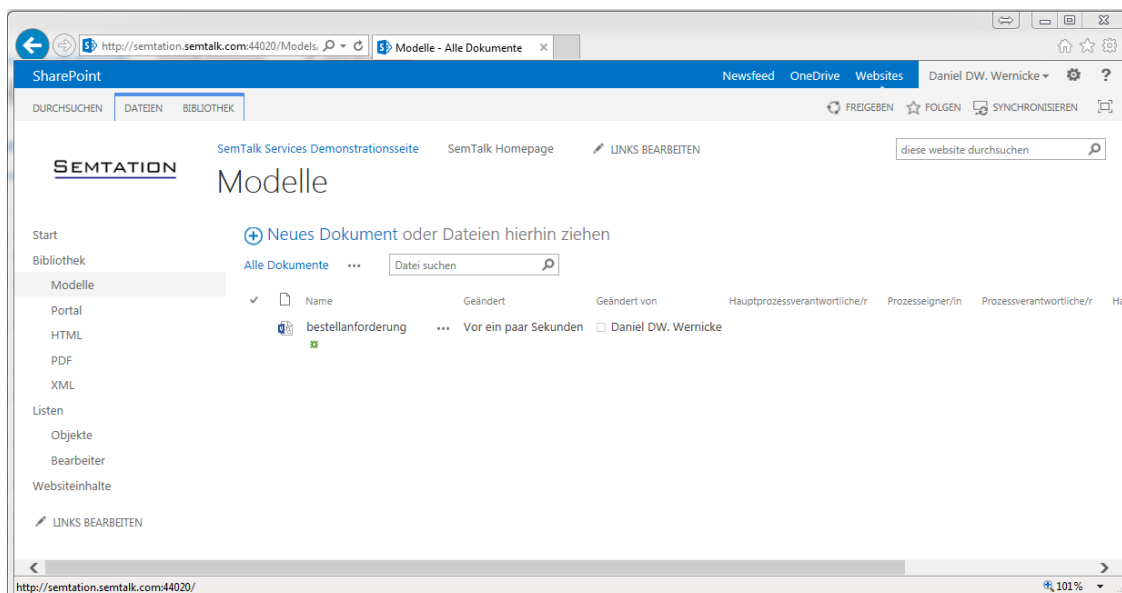


After selection of the library you will be asked for the document name.



The document is now saved to the SharePoint library. The default format of documents saved to SharePoint is VSD for Visio 2010 and VSDX for Visio 2013. If you need other formats such as VDW or VDX, you can choose the desired extension while saving.

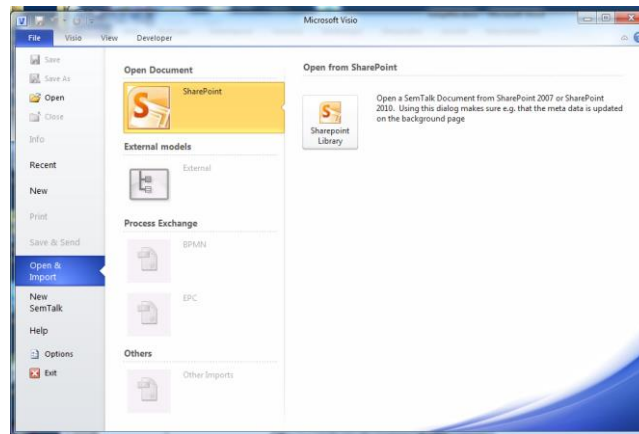
Depending on the configuration of the library, the document may still be checked-out. This happens if the library has required columns or if check-in/check-out is required in by this library. If this is the case, newly saved documents are not visible to others until they are checked-in.



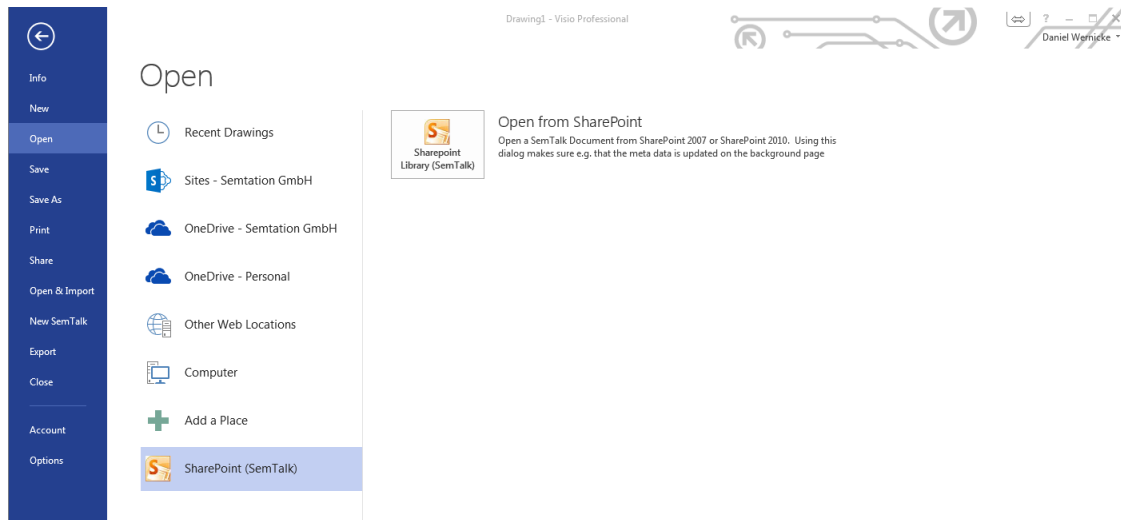
Once your document is saved to SharePoint, or has been opened from SharePoint, you can just use **File->Save** or the **Save** button to save it again.

Open Documents from SharePoint

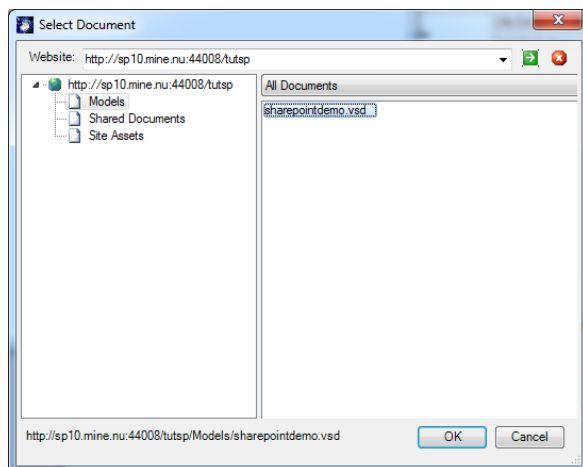
Opening a document from SharePoint is done using for Visio 2010 **File → Open & Import → SharePoint**



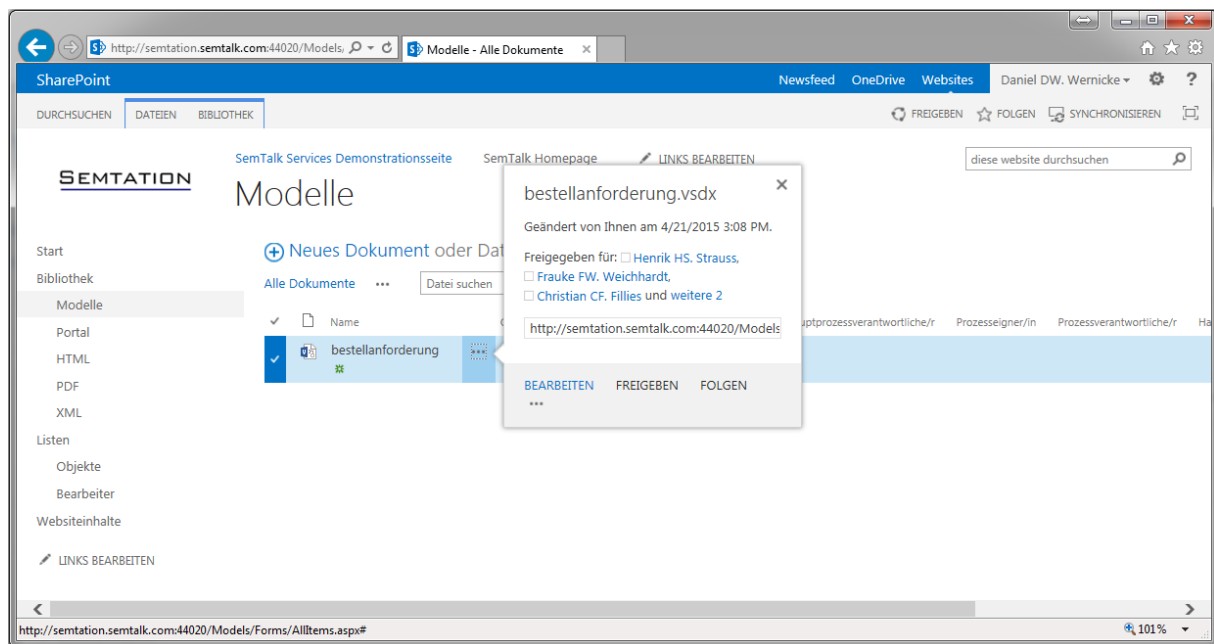
and for Visio 2013 use **File → Open → SharePoint (SemTalk)**



After that select the Site, the Library and the File



Also you can Open the File directly from SharePoint

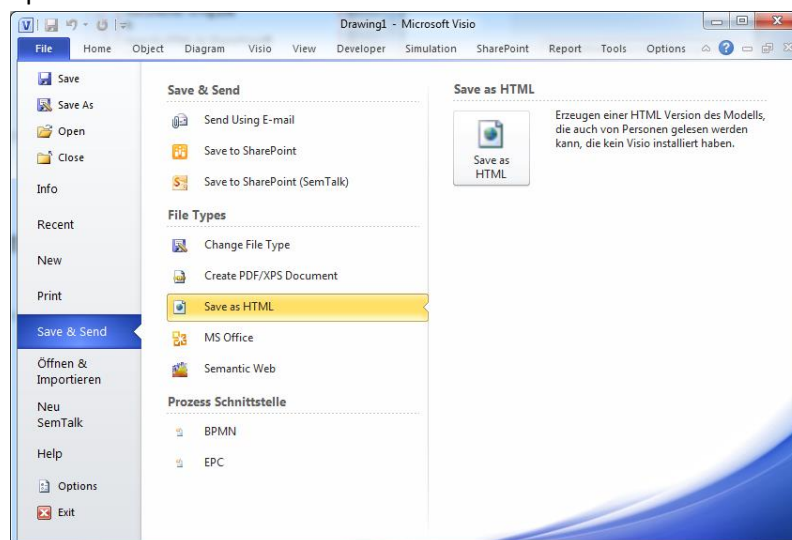


SaveAs HTML

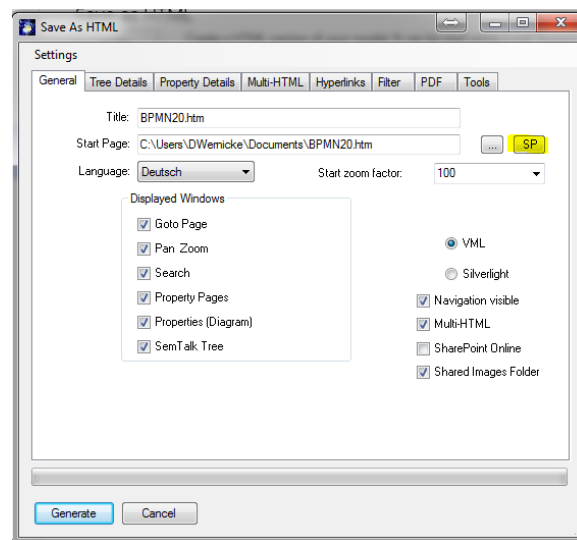
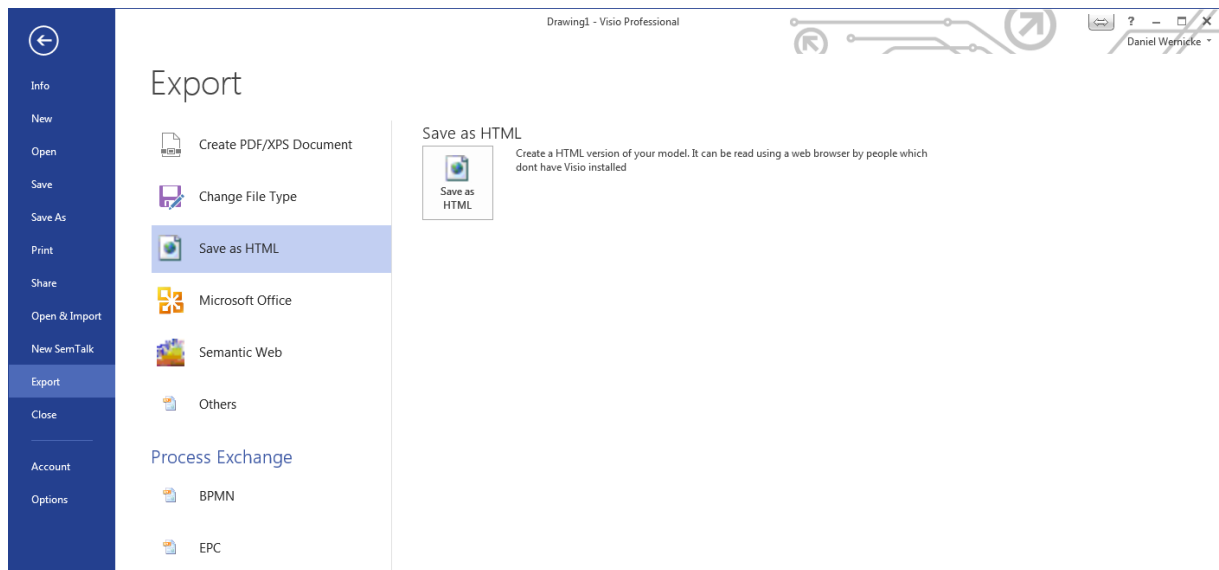
If the document library has views, you can filter documents to publish your documents as HTML. In the SharePoint library you **cannot** simply upload HTML files, you must use the SharePoint integration found in the **SaveAs HTML** dialog.

HTML pages should have a dedicated library. Simply name them “HTML”. Similar to the XML library, this library can be hidden from end user navigation views.

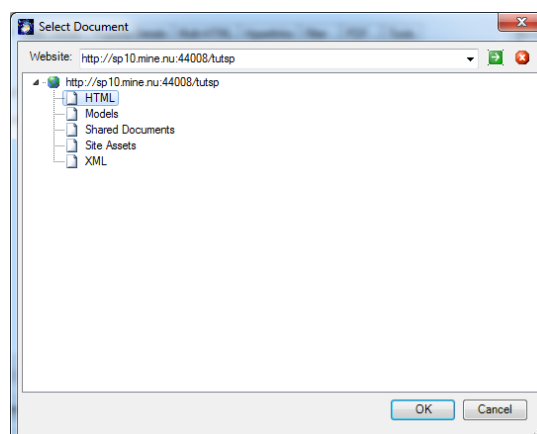
Open the HTML Export for Visio 2010 with **File-> Save & Send → Save As HTML**.



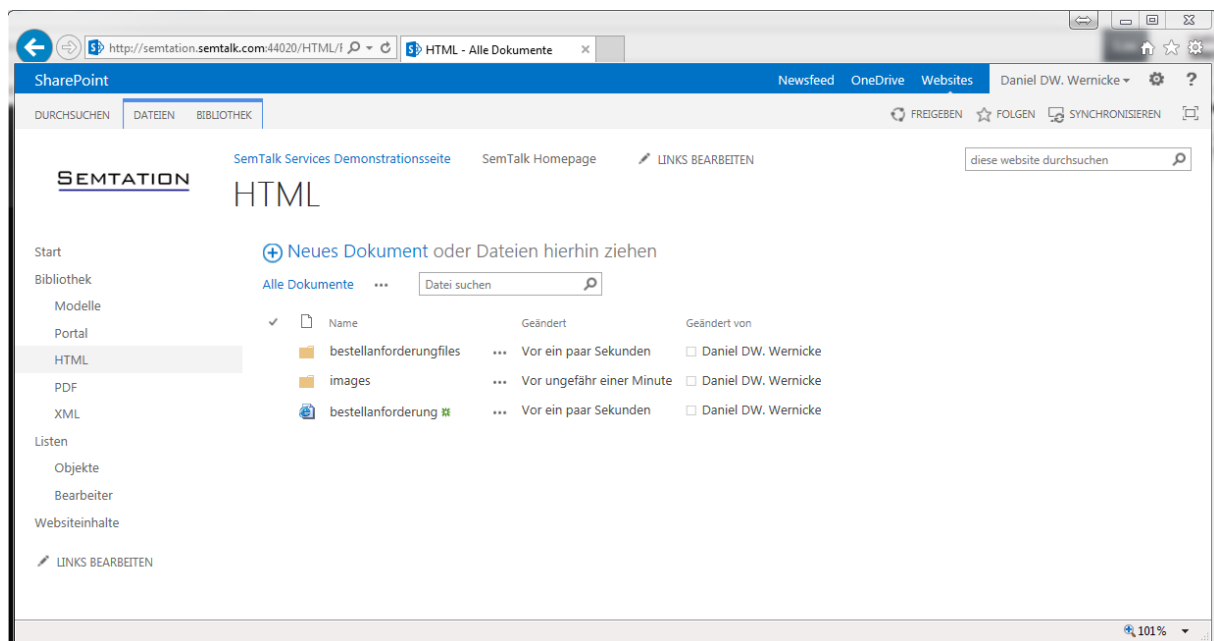
And for Visio 2013 with **File → Export → Save as HTML**



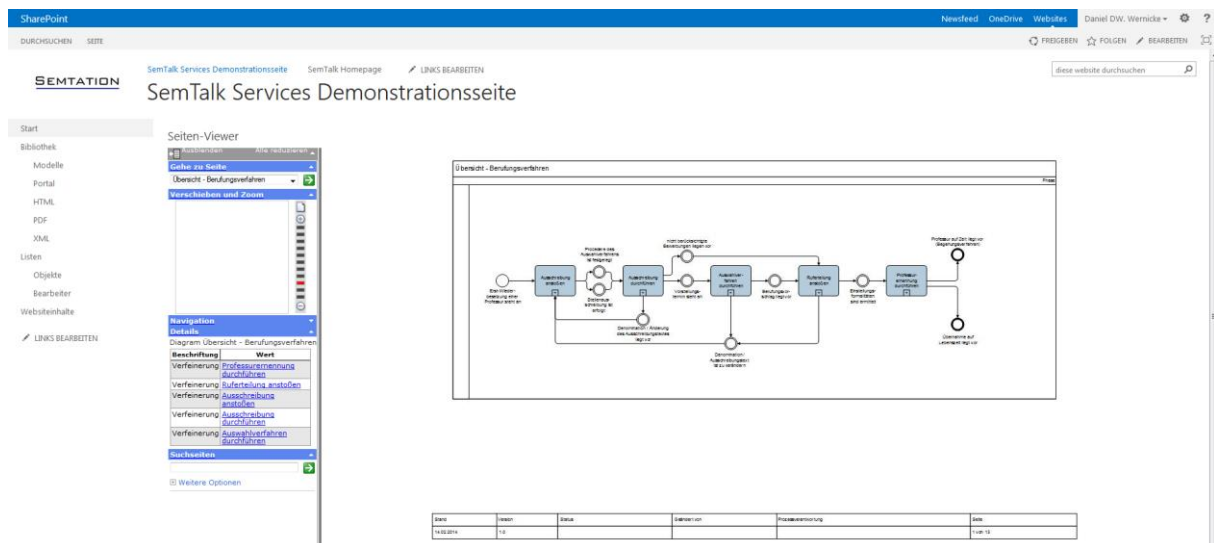
Click the “SP” (SharePoint) button to select the HTML library.



After generating HTML and automatic upload, the page can be found in the HTML library.

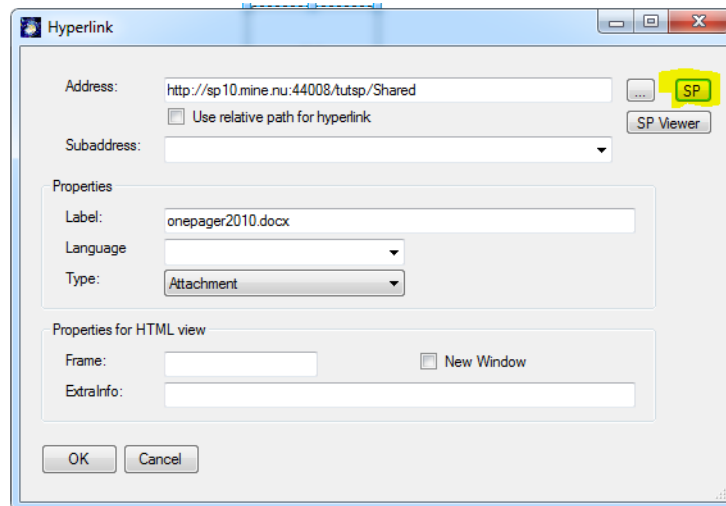


When creating a small portal you just need to add a Page Viewer and link it to the start page of your HTML.



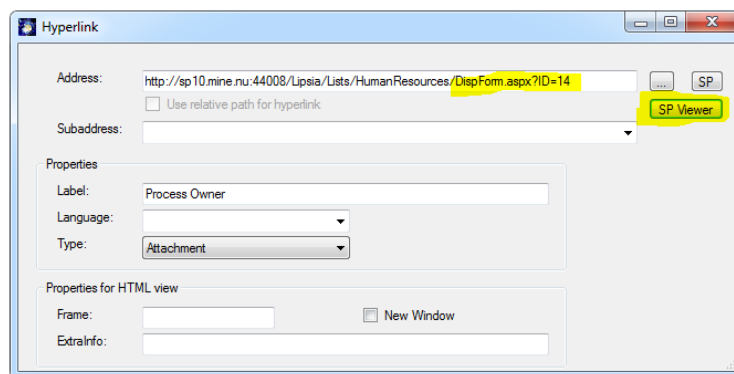
Attaching Documents

Documents are attached to SemTalk objects using the Hyperlink button in the toolbar or by using the edit dialog. To attach Documents saved to SharePoint libraries you apply the “SP” (SharePoint) button in the hyperlink dialog.

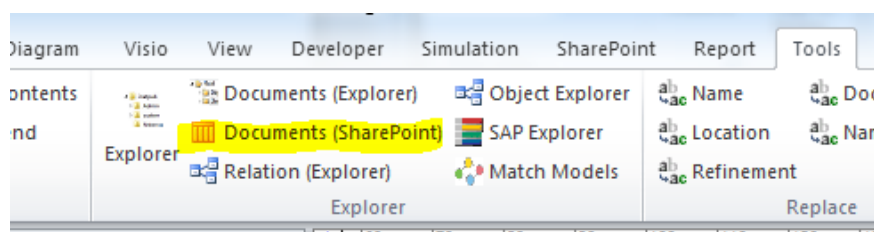


Documents can be selected from any SharePoint site and they do not have to be stored in the same site as the Visio document. You may add as many hyperlinks to an object as you like.

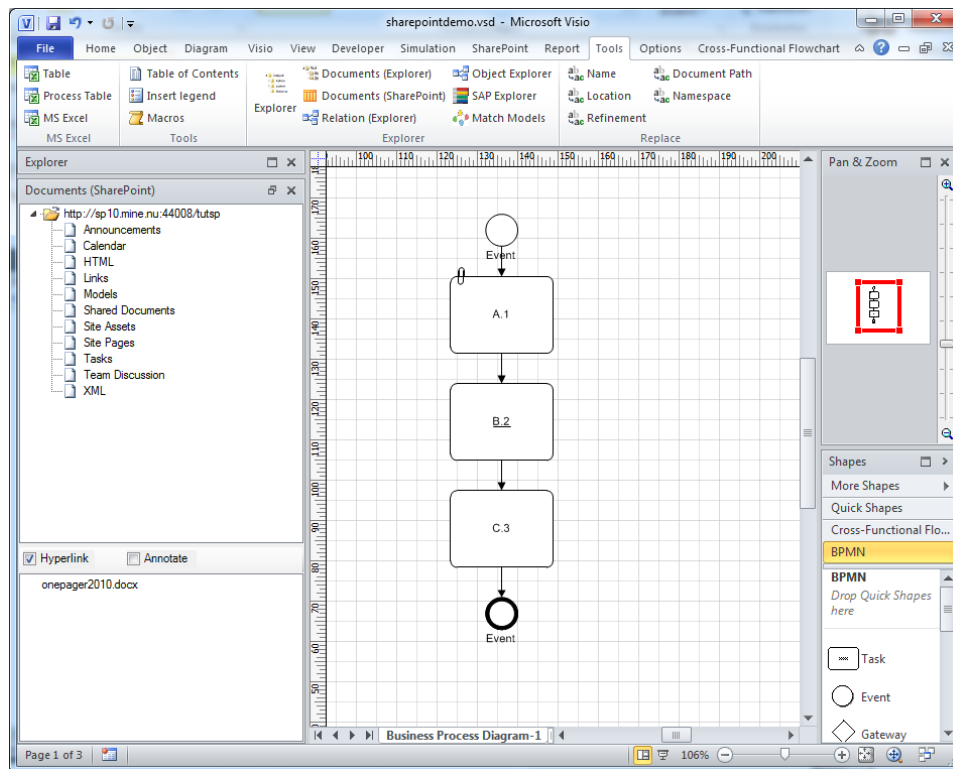
Beyond attaching documents you also have the option to create links to list items. The intended use is to open a SharePoint form on the selected item. As with other hyperlink, these hyperlinks are also available in the HTML export. Items are selected using the button “SP Viewer”.



If you are attaching multiple documents from SharePoint, you can use the **Document Explorer** (Tools > Documents (SharePoint)) to make this easier.

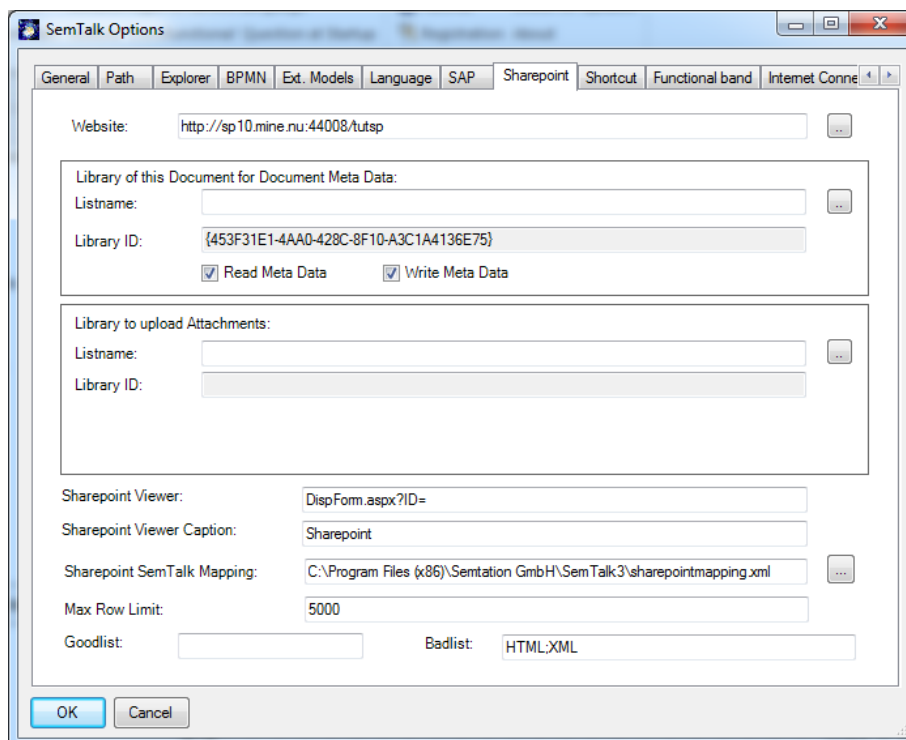


In the **Documents (SharePoint)** Window you can select the library which contains the documents. If you drag them onto SemTalk objects a new hyperlink is created.



SharePoint Library Options

Options->SemTalk Options->SharePoint is the place to configure the SharePoint libraries in SemTalk.



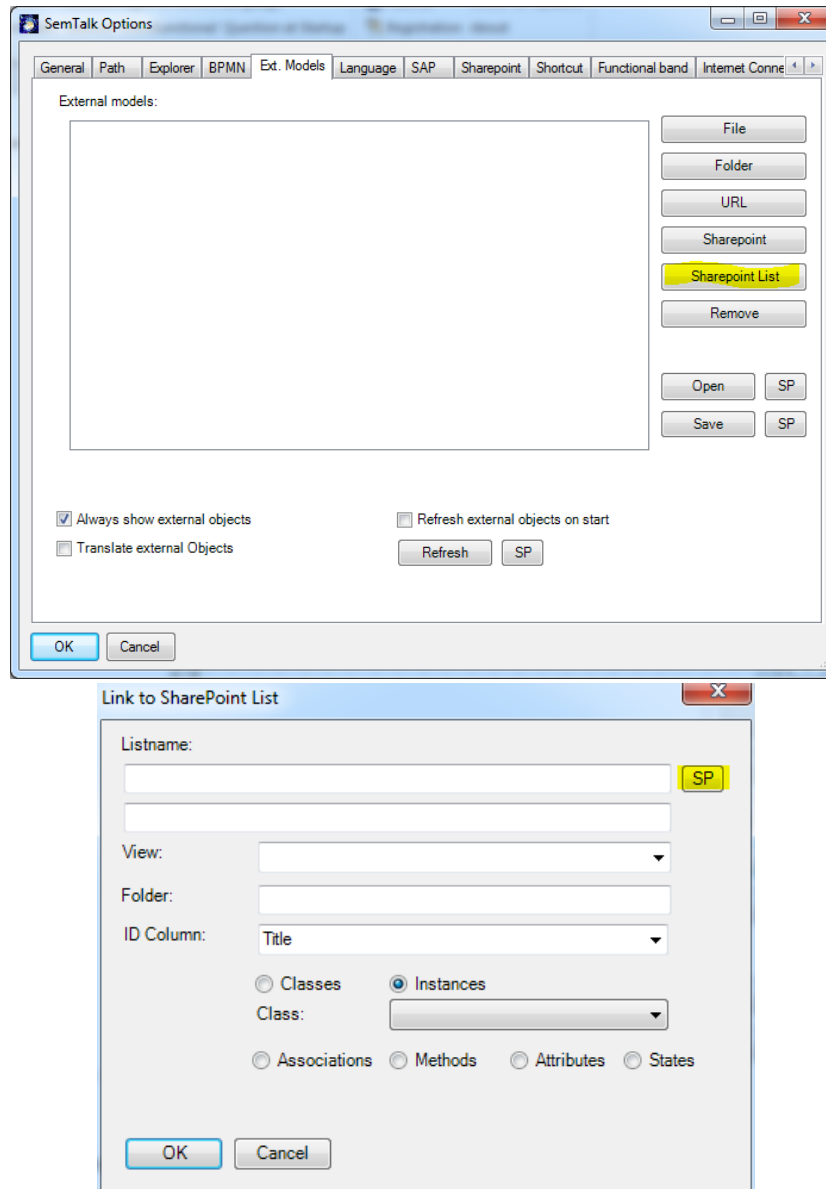
Website	Default website, website containing the document
Library of this Document for Document Meta Data	Document library where the Visio document is stored. Read / Write Meta Data allows users to specify if SemTalk is supposed to import SharePoint Meta e.g. for a Background page. Write meta data to fill columns in SharePoint with data from SemTalk if applicable.
Library to upload Attachments	Default Library for Attachments (not the Visio documents)
SharePoint Viewer	SharePoint Form which is used for attached list items. This can be overwritten on each class
SharePoint Viewer Caption	Caption in menus for links to list items
SharePoint SemTalk Mapping	XML configuration file containing mappings from SemTalk objects to lists. Used at File->SharePoint->Assign SharePoint Lists
Max Row Limit	Maximum number of rows to return in SharePoint 2010
Good List	Plus filters show which libraries are visible in the SharePoint dialog
Bad List	Negative filters determine which libraries are visible in the SharePoint dialog <???

Repository Features

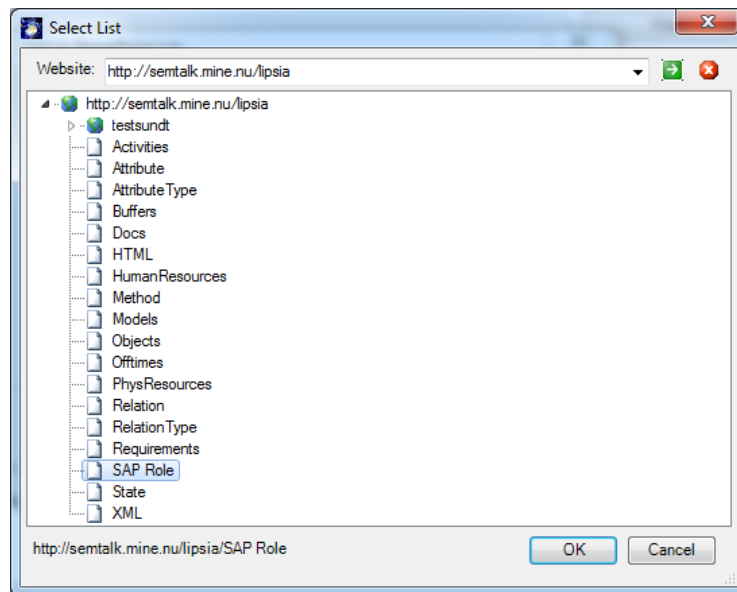
SharePoint Video Part 2: <http://www.youtube.com/watch?v=yDRdrgTIH0I>

Integration of SharePoint Lists with SemTalk

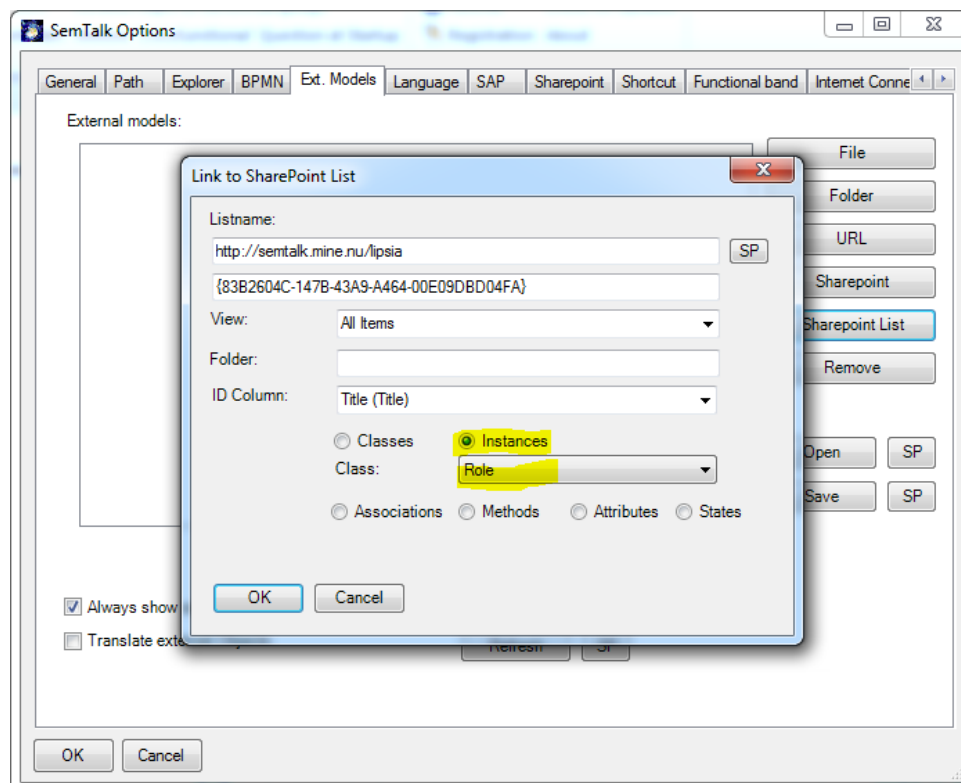
In order to load SharePoint lists as external objects you have to select **Options-> SemTalk Options->Ext. Models->SharePoint List**. Do **not** select SharePoint since this would load simply a XML file stored in SharePoint.



Use the SP (SharePoint) button in the **Link to SharePoint List** dialog to choose a site and then a list. In this example we have prepared a list named "Role", containing a list of SAP role names. You may create various lists with content you may have in some Excel sheets.



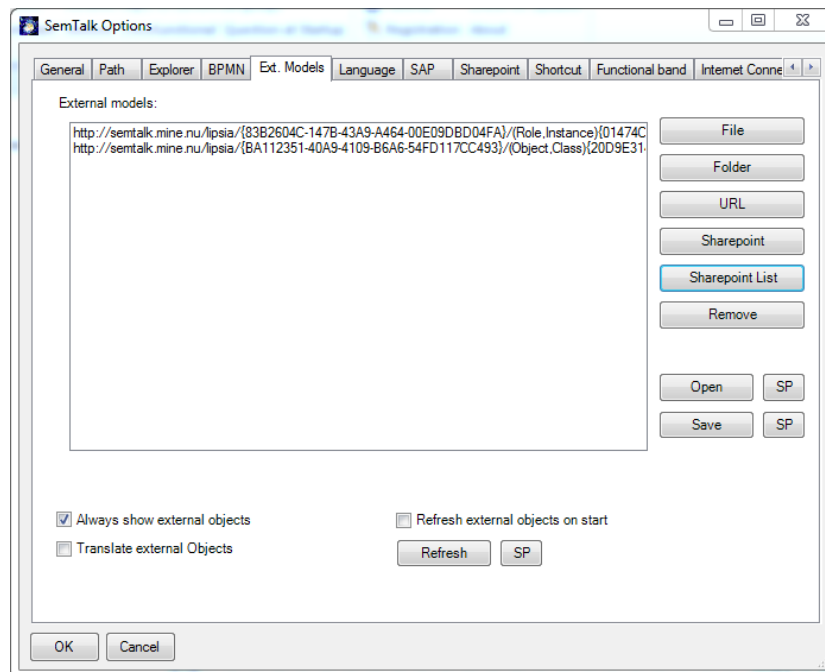
The items in the list will be mapped as instances to the class “Role” in SemTalk.



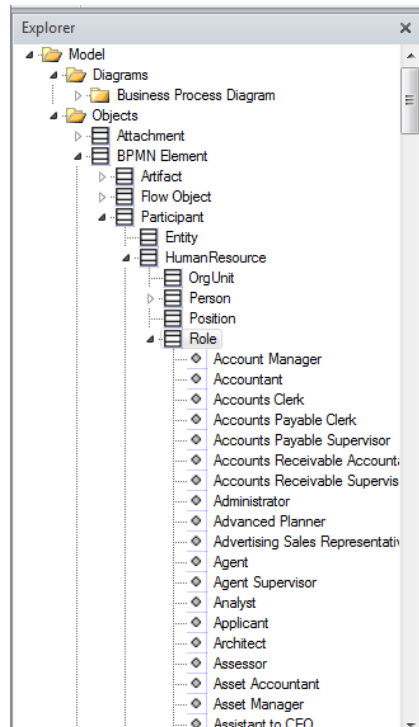
You may link multiple SharePoint lists to a SemTalk model. Simply select “SharePoint List” again to add more lists. For this tutorial we add a list of objects (taken from the BPMN tutorial).

You may assign any SharePoint list to any SemTalk object type. If column names match attribute names in SemTalk, values will be updated. Lookup columns are mapped to associations.

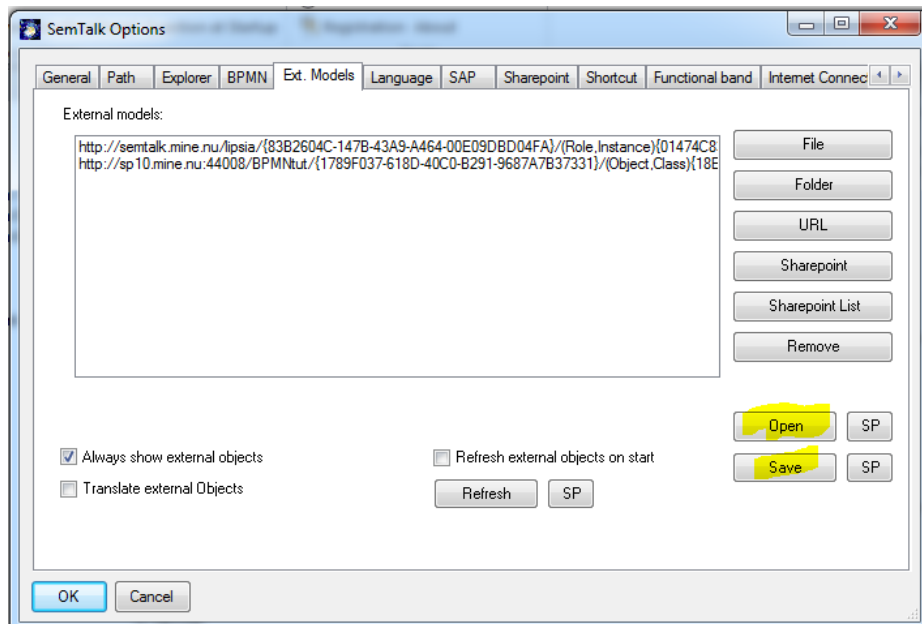
In order to create a well-engineered professional repository in SharePoint, we highly recommend our SemTalk solution “SemTalk SharePoint Site Builder” which graphically specifies and generates those lists from predefined SemTalk Content Types.



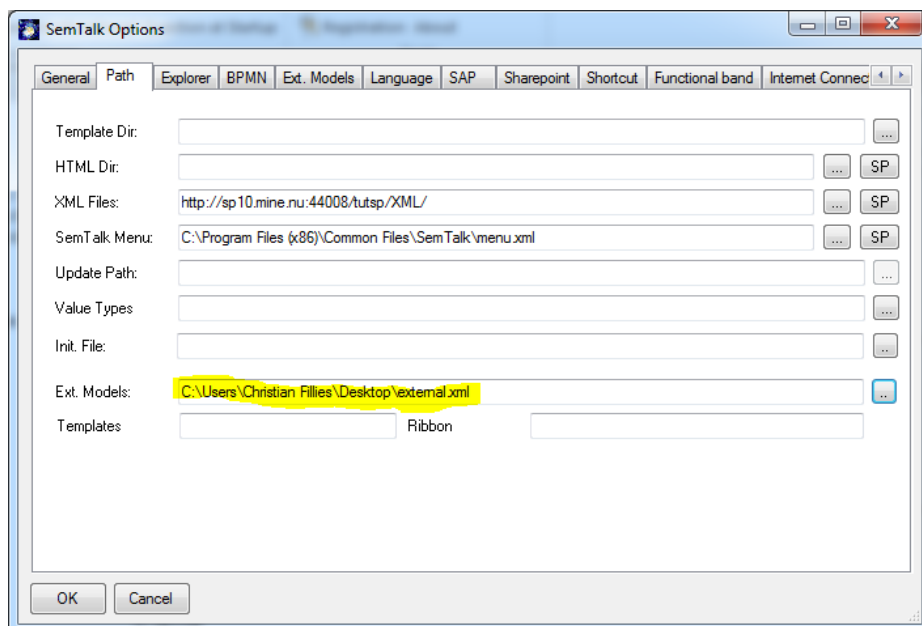
Items of the added lists can be found in the SemTalk Explorer:



“Open” and “Save” allows users to store lists of external files or libraries in a file. “SP” are used for opening and saving this file to SharePoint.

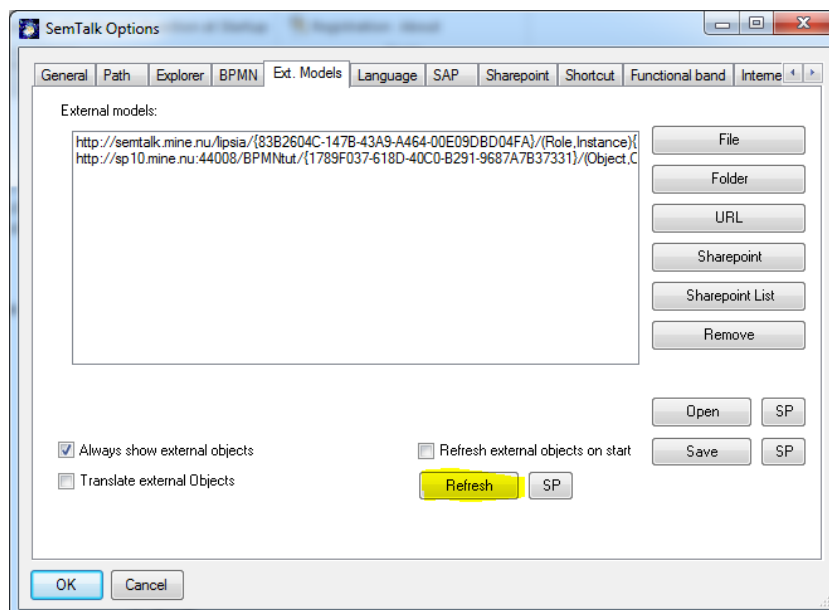


If you wish to preselect a list for all models, it can be specified on the “Path” tab.



You can also use a path relative to the document library where the file is being saved.

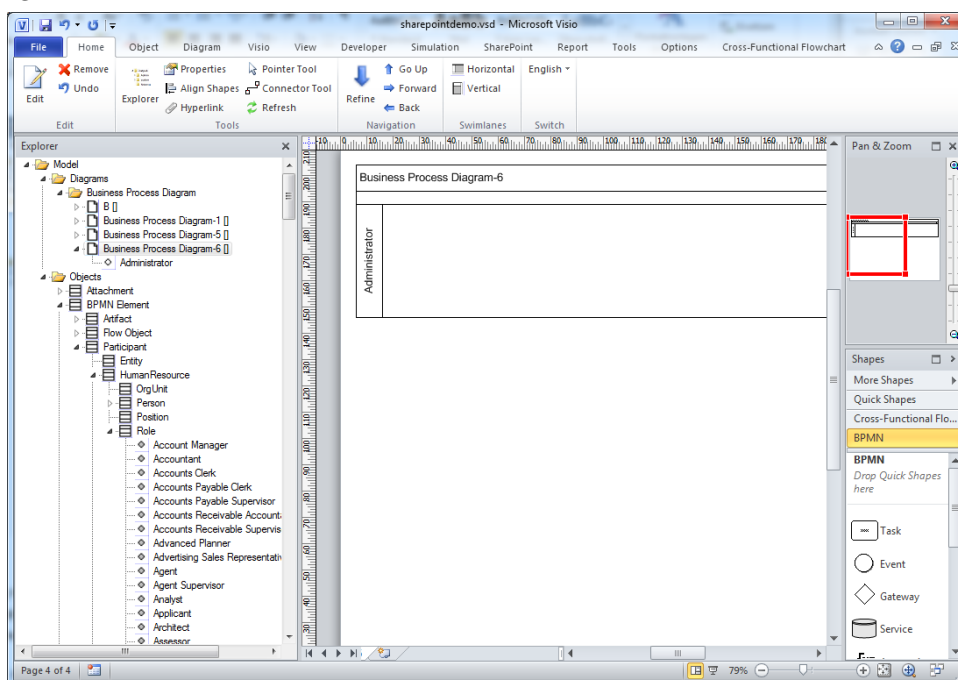
If you change the location of your external libraries (e.g. migration from pilot to production), you can update all the references to the new list using the “Refresh” button.



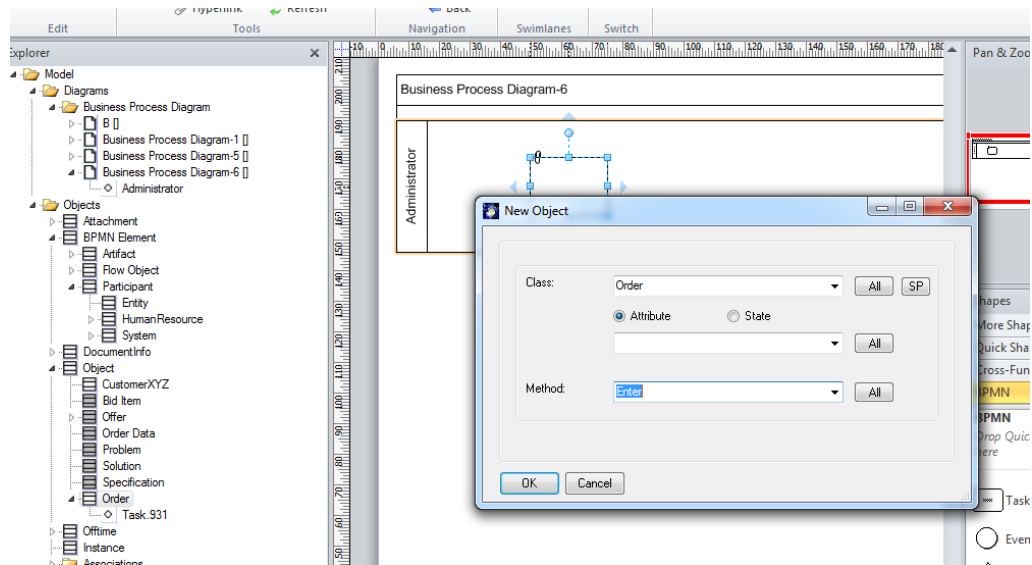
Using SharePoint list items in SemTalk

You have now several ways to use the SharePoint items in your model:

1. Dragging items to the drawing area.
 - If you drag and drop “Administrator” to the drawing area it will be displayed as a swim lane.

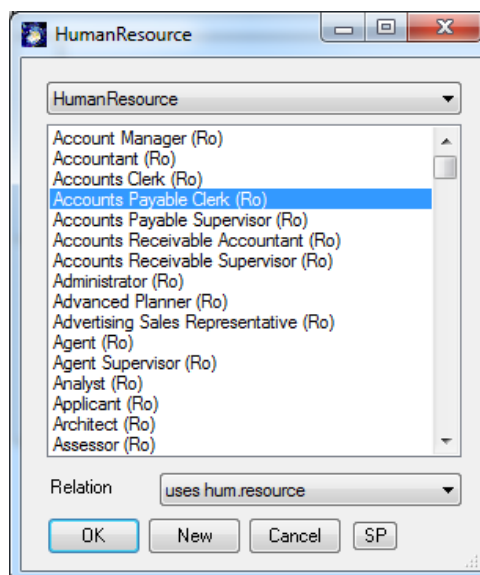


- Drag now an object from the external list “Objects” to the drawing. E.g. „Order“. The Compose Dialog opens and you only have to select a method (verb) to create an activity on the lane.

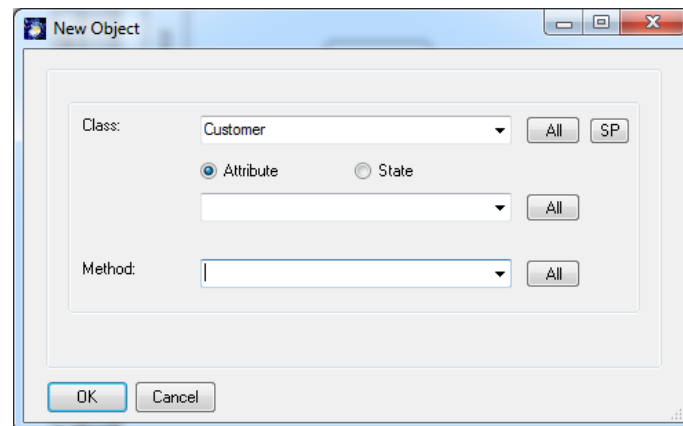


2. Directly select items from SharePoint

- On many elements in SemTalk you have the option to make a reference to a SharePoint library. If you add a new lane, you can right click “Select” and find all the items of the SharePoint lists to pick an item.

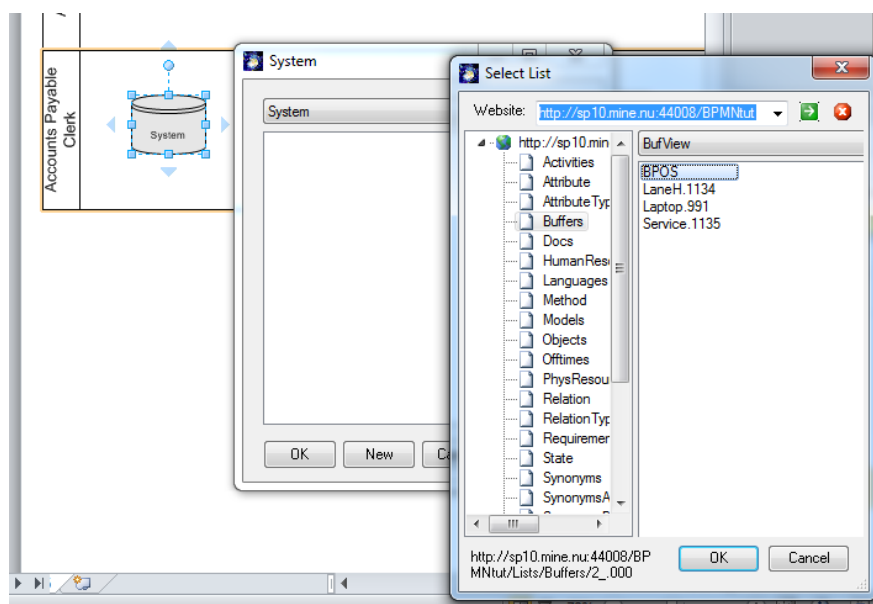


- For activities, events and gateways you may use the SemTalk Compose function and pick business objects from the external list.

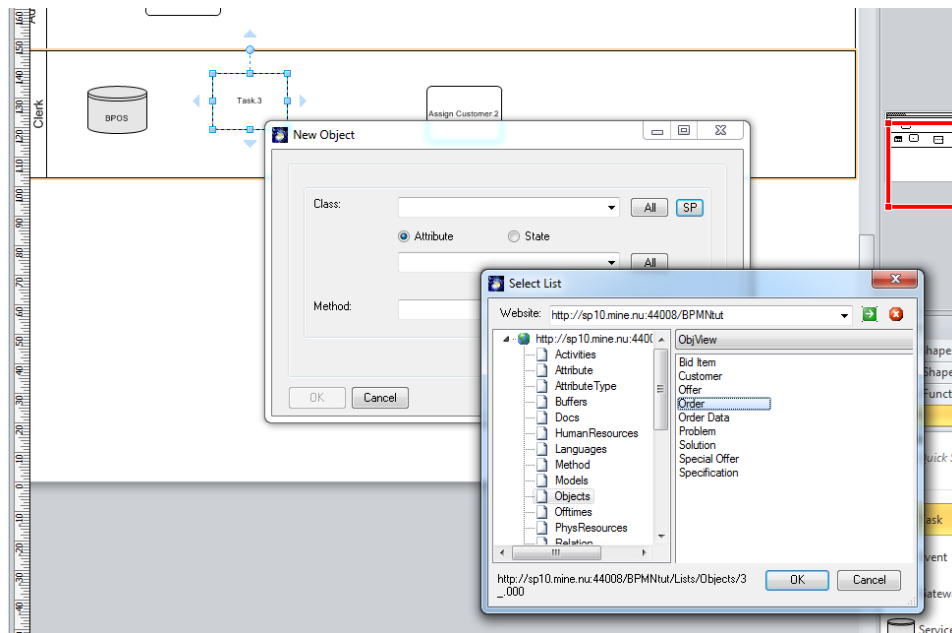


3. Selection of individual items without preselecting the list in SemTalk options.

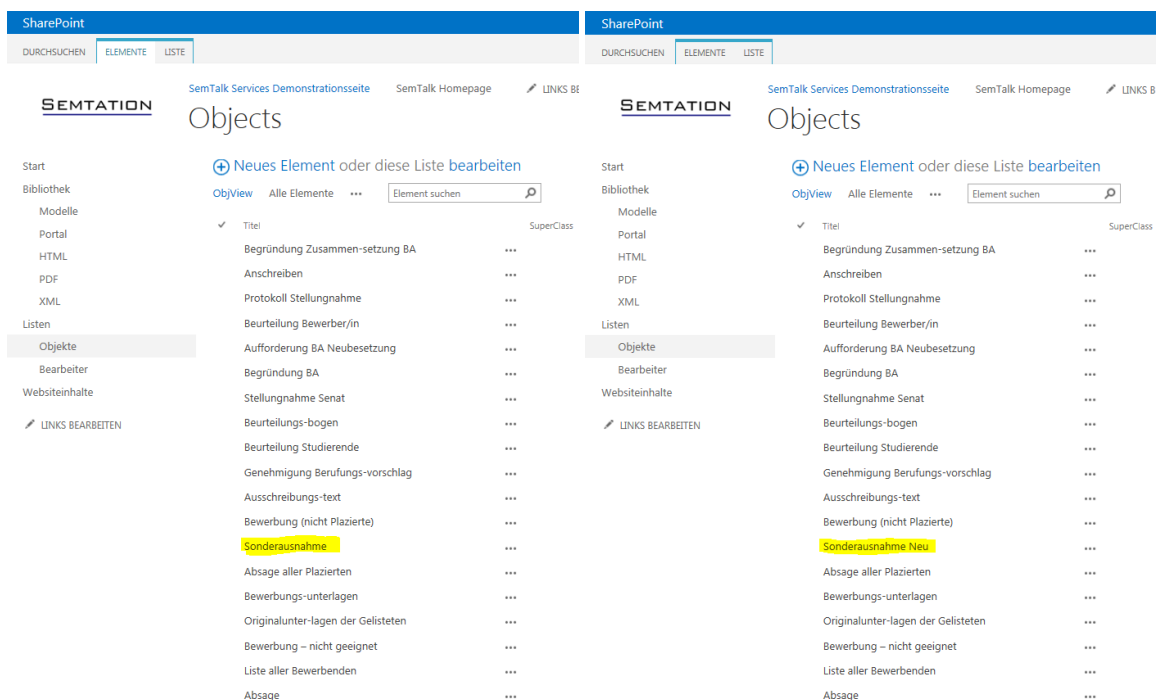
You may select individual items from SharePoint without assigning the complete list in the way described above. In this case you will need to select the list for each individual object. This makes sense if you need individual objects from SharePoint and want to avoid loading the complete list from SharePoint each time you startup your model. Again, use the Select menu entry. Now use the SP (SharePoint) button on the dialog and select a list and then select the items of your choice.



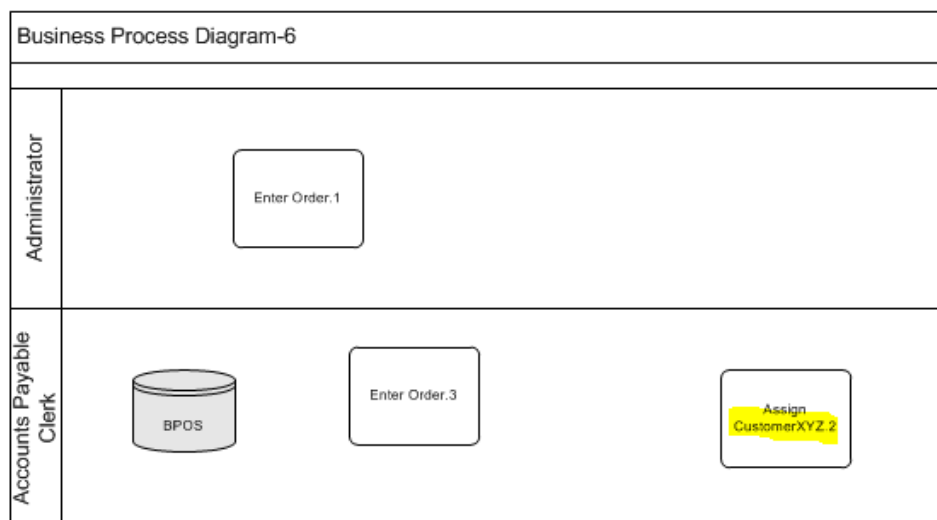
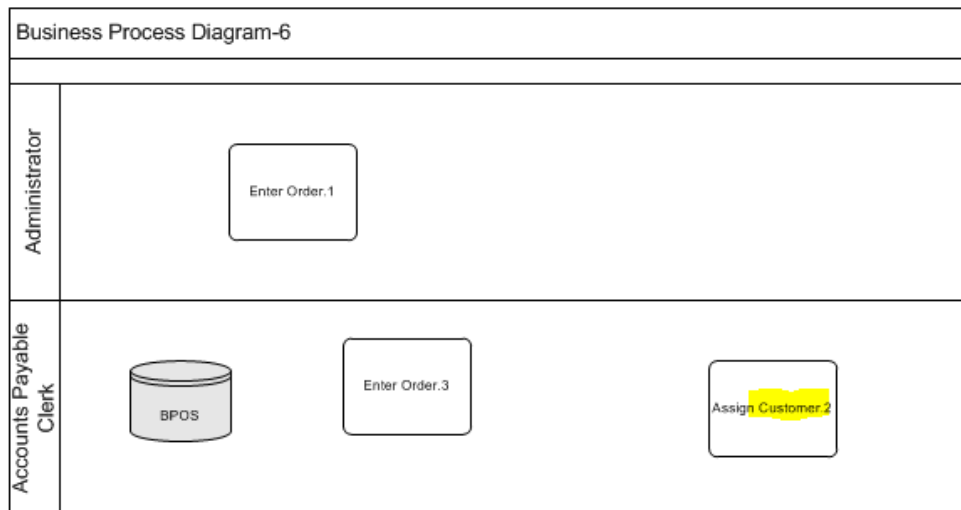
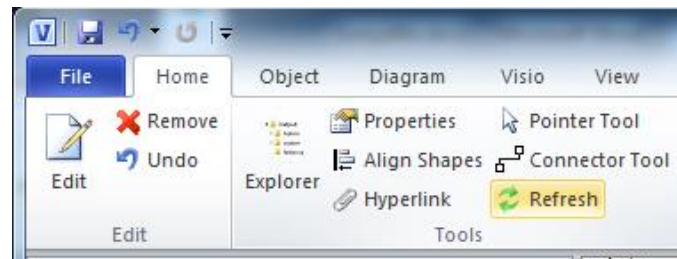
- The same applies for activities. The “Compose” dialog has also an „SP“-button where you can directly select objects from SharePoint lists.



Once you rename / change an object in SharePoint, these changes will be reflected in SemTalk after refreshing the model.



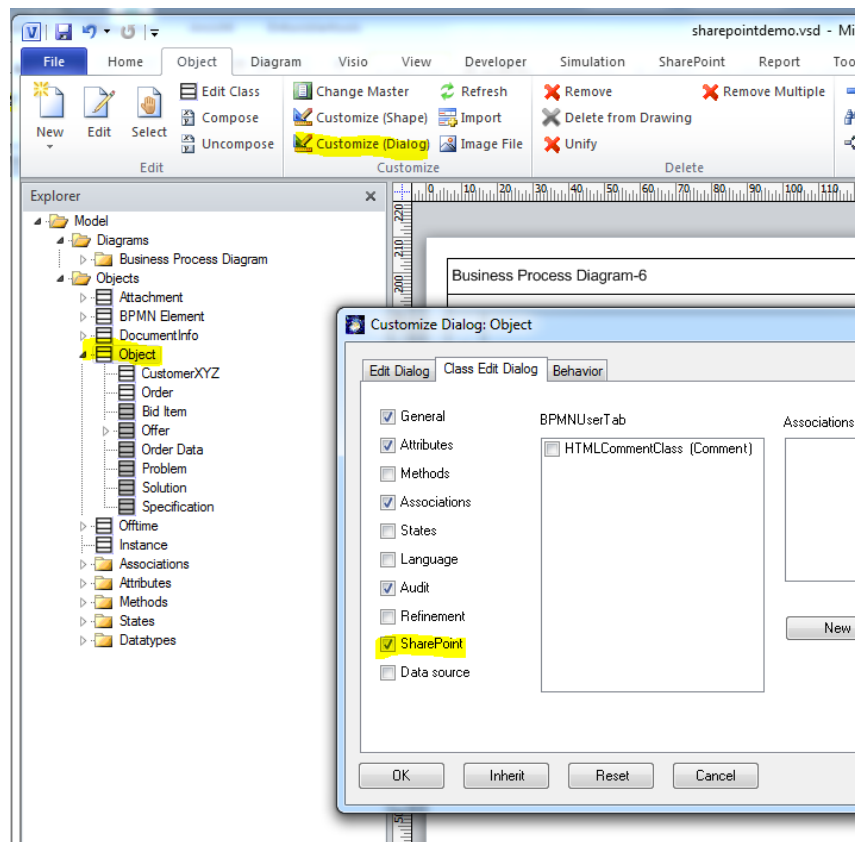
To refresh use the **Refresh** button



Mapping Classes to SharePoint Lists

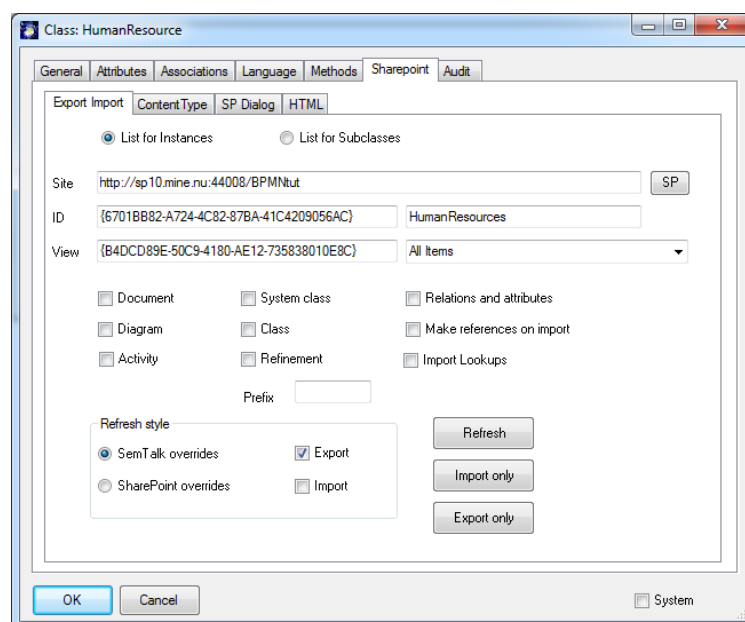
You can map SemTalk classes directly to SharePoint lists. The idea is that all SemTalk instances of those classes have a corresponding items in such a list. For new instances in SemTalk new items in SharePoint will be created and vice versa. This requires some configuration since you must specify which lists and how items will be mapped for SemTalk classes.

This mapping will be specified on the **SharePoint** tab of the edit dialog for a class. If this tab is not visible, you can make it visible using the **Customize** dialog. Select the class in the Explorer, choose “Customize (Dialog)”.



Using the **Customize** dialog, please check the option **SharePoint** on the tab **Class Edit Dialog**.

If you edit the class you should be able to see the SharePoint tab.



The SharePoint tab has several sub-tabs. The most important one is **Export Import** where you select the list with the SP (SharePoint) button and decide if items will correspond to subclasses or to

instances. For Object/Information the mapping is supposed to be subclasses and for roles or IT-systems it should be instances. You also may specify views in order to select a subset of items.

The buttons “**Export only**”, “**Import only**” and “**Refresh**” create and merge to respective objects or item in the list. **Refresh** is actually the same as the Refresh button in the toolbar. For Refresh you may enter more detailed information. Checkboxes for Export and Import specify that objects should be exported or imported. SemTalk override means that objects are first exported and then imported again.

Other options allow exporting more information to SharePoint if specific columns exist: **Document** is the name of the document. **Diagram** is the page on which the object is being displayed. **Activity** refers to Activities that may be related. Other possible columns in SharePoint are Class, **System Class** or **Refinement**.

Relations & Attributes is a very special option designed for sites having a specific structure to represent class models. The class list is supposed to have columns for attributes, SuperClasses methods and states. All of them are lookup columns on other lists.

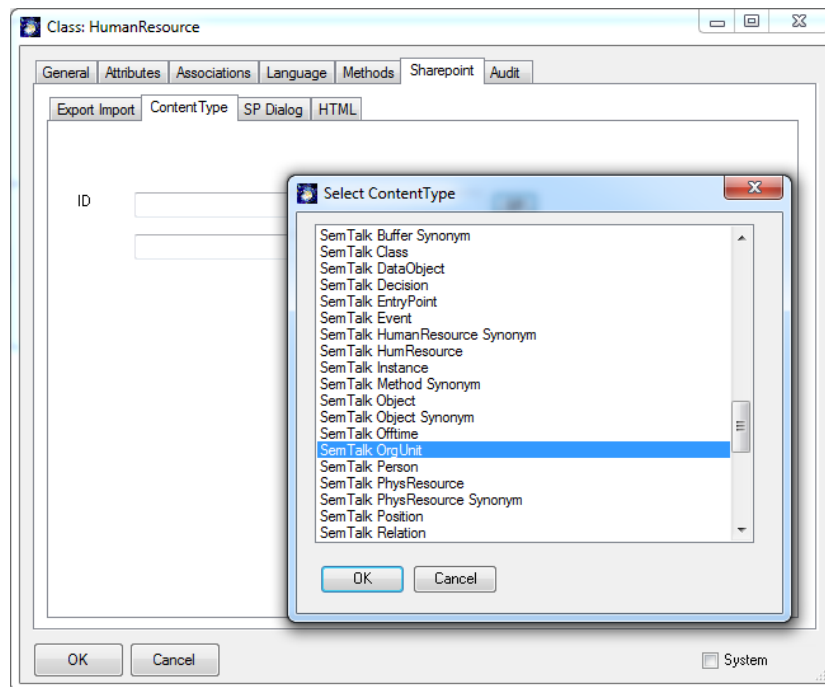
Titel	Attribute	SuperClass	Method	State
Kunde				
Einkaufsbeleg			erstellen; aufrufen	ist zu erstellen; ist zu ändern; ist gefunden; ist erstellt
Anfrage	Document_Type	Einkaufsbeleg		
Bestellung	Document_Type	Einkaufsbeleg	liefern lassen; fakturieren; aus Anfrage erstellen; Notwendigkeit Lieferschein prüfen; Notwendigkeit Rechnungsdruck überprüfen; Fakturierung buchen und drucken; Fakturierung drucken; Lieferung buchen und drucken; Fakturierung buchen; Lieferung buchen	ist geliefert; ist fakturiert; Lieferschein notwendig; Rechnung notwendig
Rahmenbestellung	Document_Type	Einkaufsbeleg		
EK-Reklamation	Document_Type	Einkaufsbeleg		
Einkaufsreklamation		Einkaufsbeleg		
Einkaufsgutschrift		Einkaufsbeleg		
Einkaufsrechnung		Einkaufsbeleg		
Kreditor			aufrufen; erstellen; aus Kontakt erstellen	ist vorhanden

Since these sites have a fixed structure which is understood by SemTalk, we highly recommend generating them with SemTalk Site Builder, a tool which creates the structure including content types and lookups from a graphical specification. Once you have created such a structure, it will serve as an object repository or ontology for many processes.

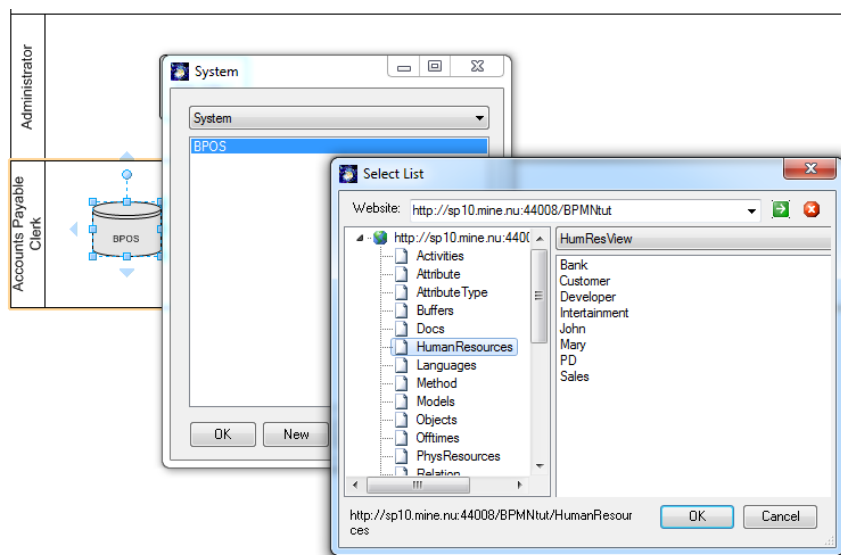
Make references on Import makes sure that objects newly created in SemTalk get a reference to a SharePoint list item from where it can be updated later on.

Import Lookups specifies that items which are related by lookup columns in SharePoint will also be imported. If a lists named “Car” relates to another list name “Person” and you might have lookups like “hasOwner” or “hasDriver” and you import a car to SemTalk, then the person(s) will also be imported.

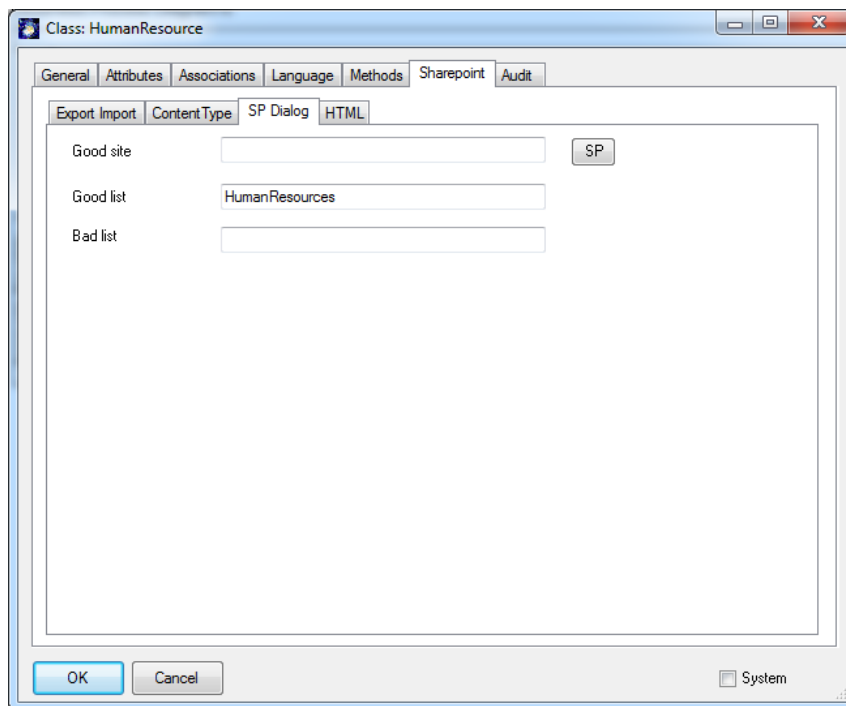
The next sub-tab is **Content Type**. On this tab you have the option to select a content type for the items in the assigned list. In case the site was generated from a default template of SemTalk Site Builder it will have content types matching all the base ("System") types of SemTalk having columns with matching names. Those content types are named per default like "SemTalk ..".



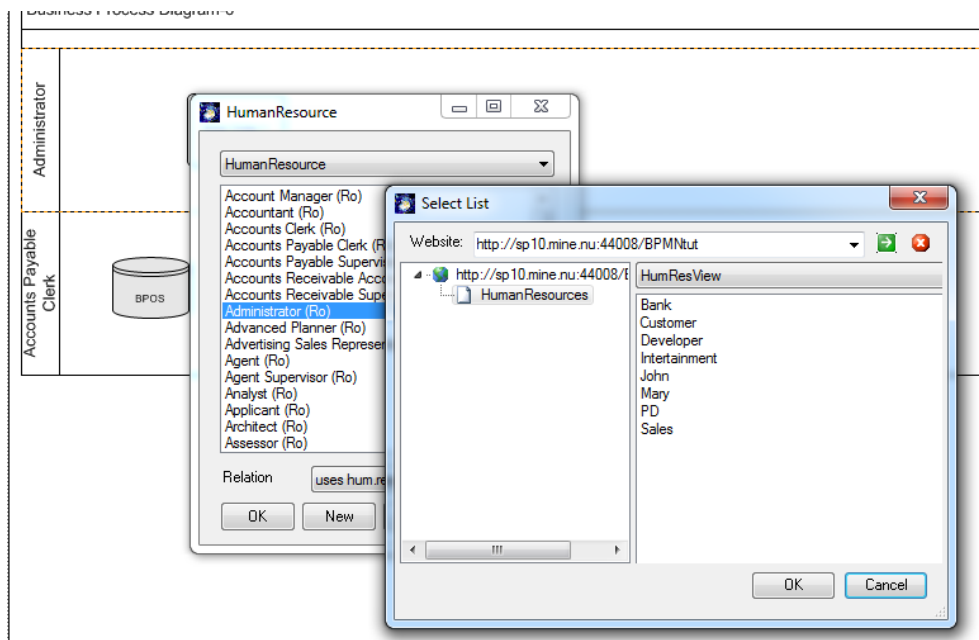
For any object in SemTalk you may assign a corresponding SharePoint item using the SP (SharePoint) button. Per default SemTalk will offer you all lists in a site to pick from, but in virtually any situation you might know which lists belong to your current object type since you have lists of roles, list of IT-Systems etc. This is the reason why you can assign have Good List and Bad List for each class.



SP Dialog tab gives you the option to restrict those lists.

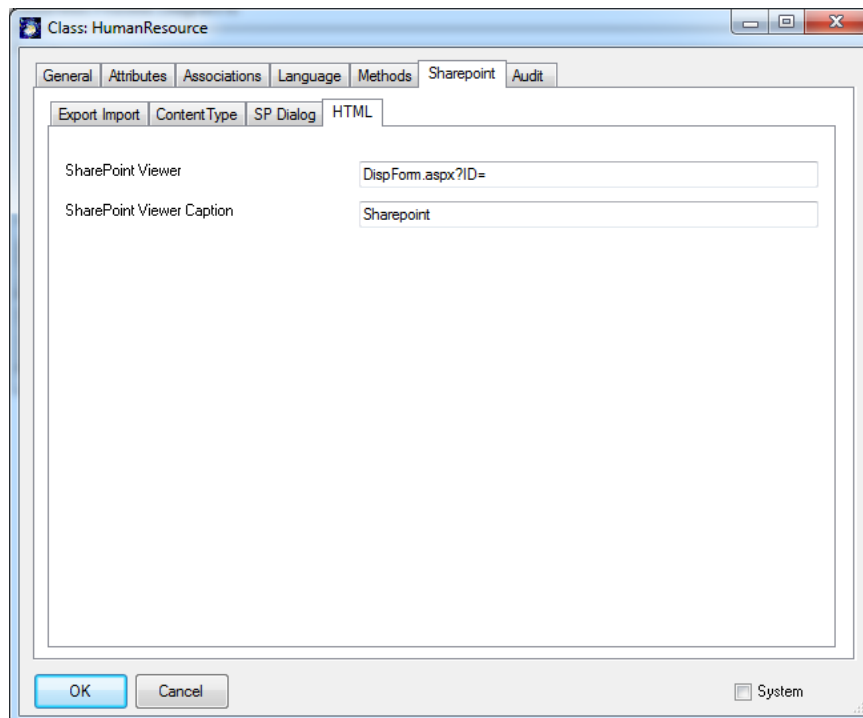


Good List is a positive restriction. Only those lists mentioned as Good Lists are allowed. Bad lists are bit weaker: Lists marked as Bad list are not allowed. Multiple list names may be entered but must be separated by semicolon. GoodSite specifies a different site to pick objects from.

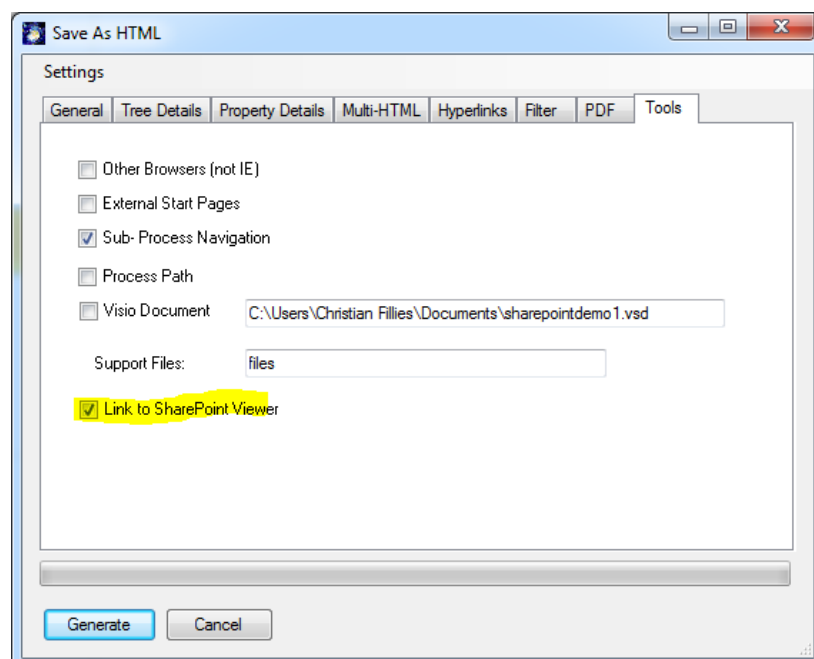


The HTML tab gives you the option to assign specific SharePoint forms to classes. The meaning is to determine which SharePoint forms will be used to edit the SharePoint item corresponding to the SemTalk object.

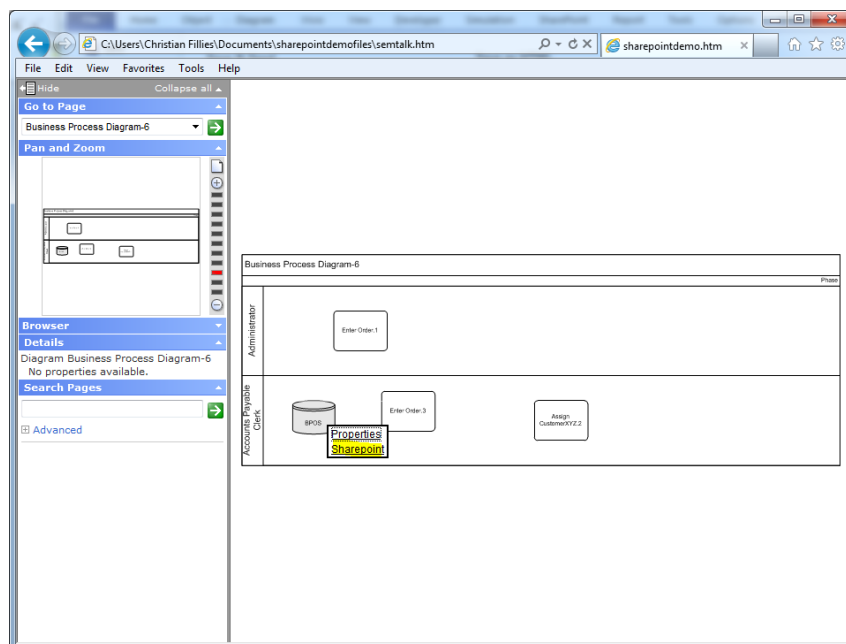
These forms will be opened e.g. from the HTML representation of the document. **SharePoint Viewer Caption** is the name of the HTML menu entry.



Check this option to generate links to SharePoint forms at **Save As HTML**:



The generated HTML will have an extra menu entry linking to the SharePoint form and item.



SharePoint

DURCHSUCHEN

ANZEIGEN

Element bearbeiten

Verwalten

Versionsverlauf

Freigegeben für

Element löschen

Benachrichtigen

Workflows

Aktionen

Start	Titel	CRM System
Bibliothek	Namespace	Sy
Modelle	SemTalkID	2015
Portal	SemTalkHTML	
HTML	Comment	SAP CRM
PDF	Class	SAP
XML	Capacity	1000
Listen	InitialContents	1000
Objekte	FlushTime	10
Bearbeiter	FlushNumber	2503
Websiteinhalte	FixedCost	5000
LINKS BEARBEITEN	stores info from	
	is read by	
	InformationType	
	Inhaltstyp: SemTalk Buffer	
	Erstellt am 4/21/2015 4:22 PM von <input type="checkbox"/> Daniel DW. Wernicke	
	Zuletzt geändert am 4/21/2015 4:22 PM von <input type="checkbox"/> Daniel DW. Wernicke	

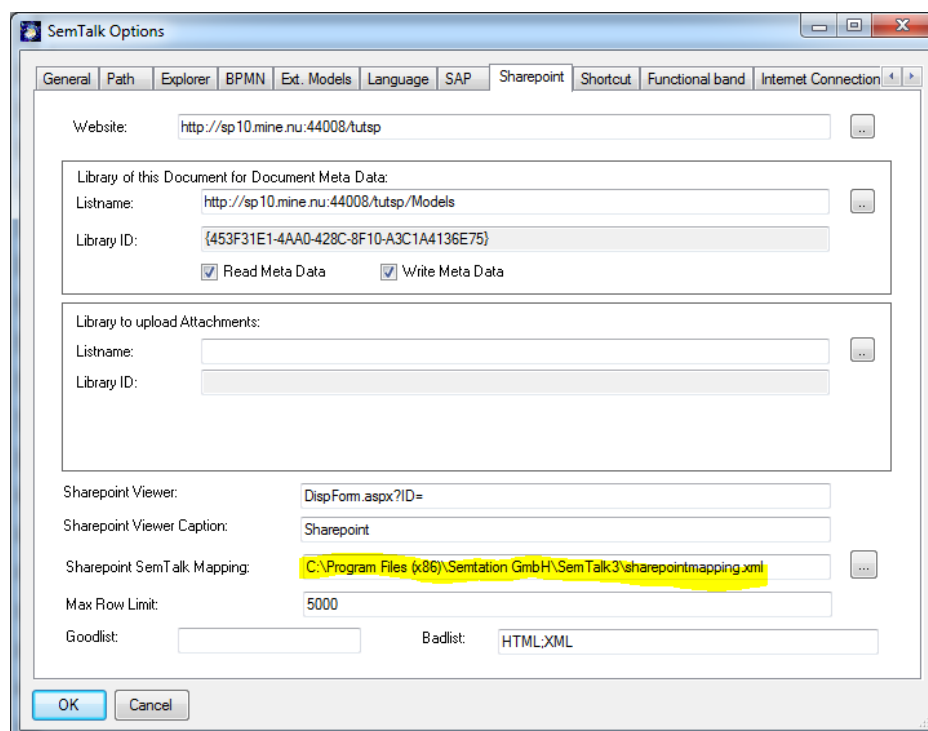
Schließen

SharePoint Configuration file

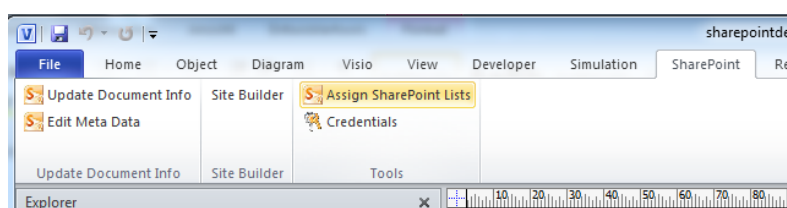
In order to transfer the configuration settings mentioned above to another SemTalk model they can be specified in a configuration file.



Select a SharePoint settings file at SemTalk options->SharePoint:

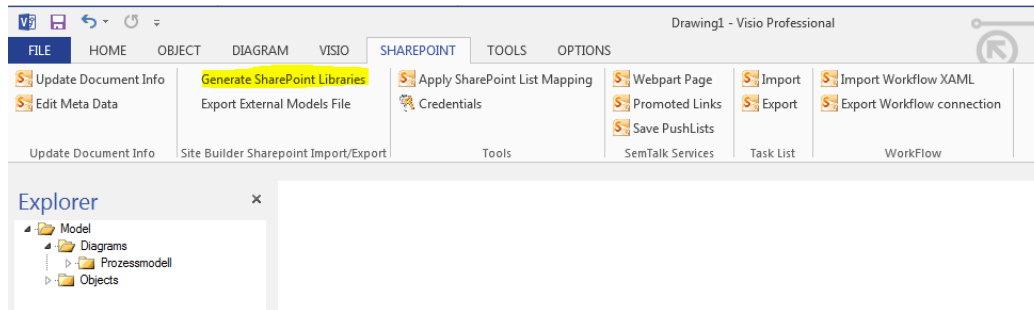


To apply such a setting file to SemTalk you may use **SharePoint->Assign SharePoint Lists**.

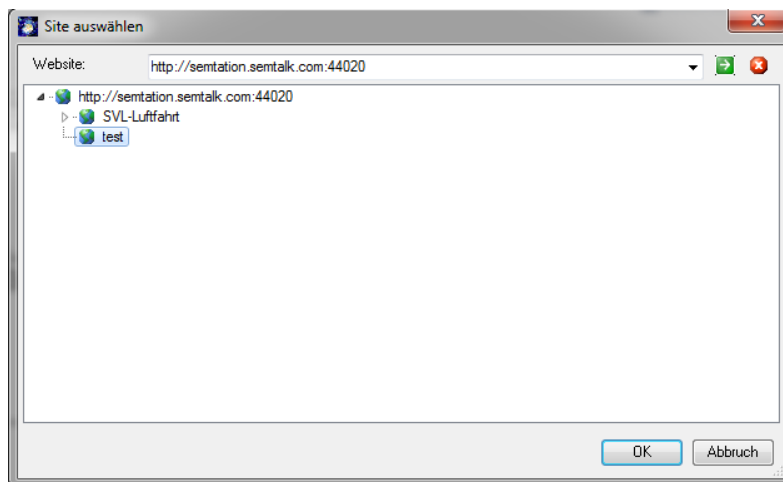


Generate default SharePoint Repository structure with SemTalk

With the Button “Generate SharePoint Libraries” under the Tab “SharePoint”, you can create a default repository structure for SemTalk in SharePoint.



Select the Website where you create the structure



After press on the OK Semtalk will create the structure on the SharePoint Server.

