

Tutorial SemTalk 3.2 BPMN Edition for Business Process Analysis



Contents

1.	About Business Process Modeling Notation (BPMN)	3
2.	Starting SemTalk BPMN Edition	4
3.	Editing a Process	8
3.1.	Adding Process Elements	8
3.2.	Using Swimlanes.....	10
3.3.	Object oriented process modeling	14
3.4.	Editing process elements	17
3.4.1.	Task Dialog.....	18
3.4.2.	Task: "Hum. Resource" Tab.....	18
3.4.3.	Task "Measures" Tab	20
3.4.4.	Sequence Flow Dialog.....	21
4.	Org Charts	24
5.	Class Diagrams	26
6.	Systems	32
7.	Refinements (Sub-Process)	35
7.1.	Attachments and Visio-Hyperlinks	36
8.	Customizing Colors	38
9.	Simulation	39
10.	Dialog View	39
11.	XPDL Export / Import	41
12.	Importing from SAP	43
12.1.	Import data from SAP Solution Composer	43
13.	Figures.....	47

1. About Business Process Modeling Notation (BPMN)

The Business Process Modeling Notation (BPMN) specification provides a graphical notation for expressing business processes. This notation has been proposed by the Business Process Management Initiative (www.bpmi.org).

Standard specification can be found at <http://www.bpmn.org>

The objective of BPMN is to support business process management by both technical users and business users by providing a notation that is intuitive to business users yet able to represent complex process semantics. The main focus of BPMN is on systems that interact and interrupt one another, where there are many deeply nested independent, but coordinated, interacting threads of execution.

This tutorial ¹is intended to be used for Business Process Analysis, rather than the design and orchestration of web services. Please refer to our other documentation if you are interested in generating BPEL Code.

¹ All screenshots in this tutorial are taken with Windows7 and Visio 2010. Other OS such as XP and Visio versions (2003 or 2007) may look slightly different

2. Starting SemTalk BPMN Edition

In order to start SemTalk you can use “Start->Programs->SemTalk->SemTalk3” or the icon on your desktop. The first time you start SemTalk it will come up with the following dialog, which gives new users quick access to available modeling methods.

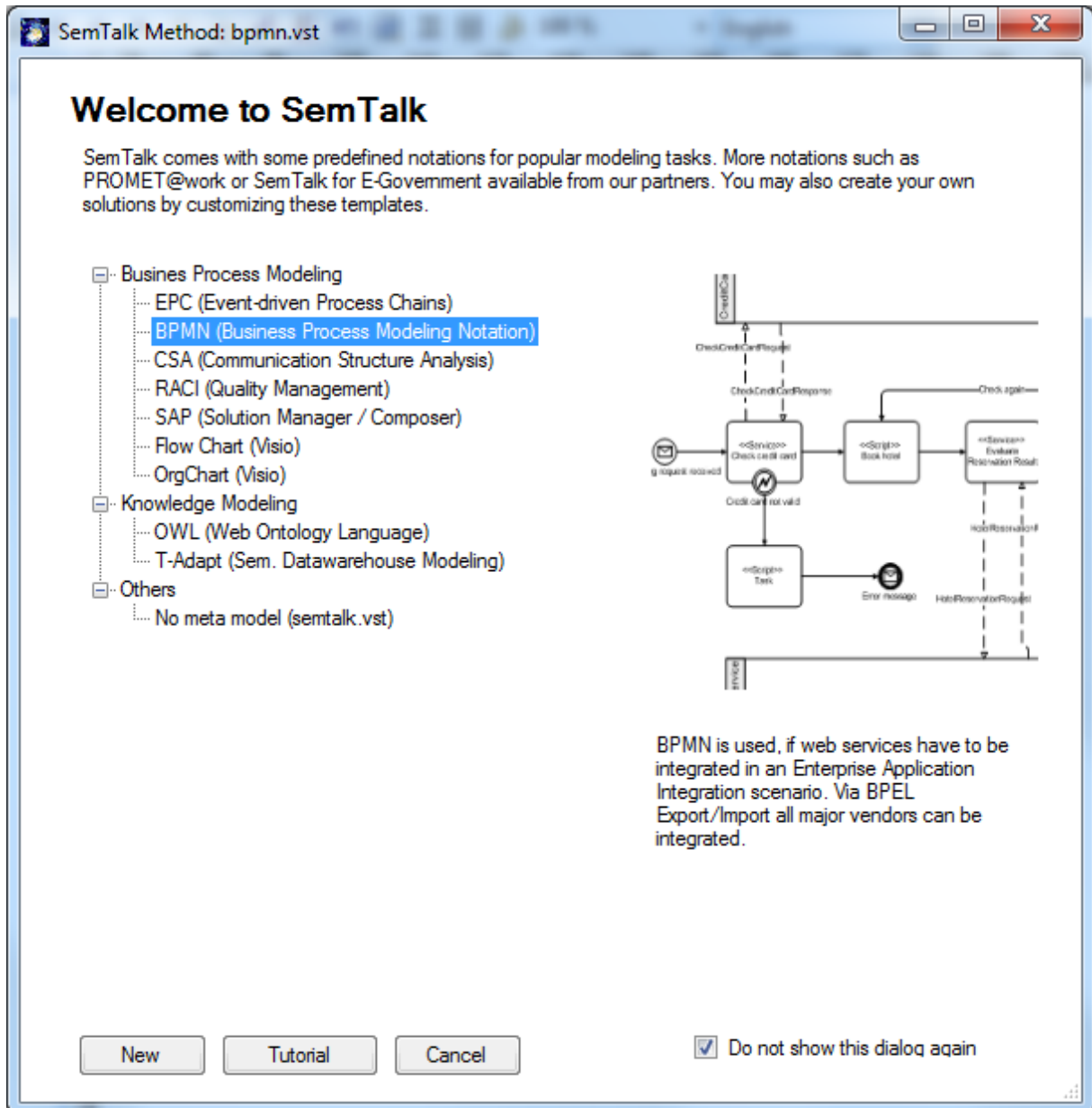


Figure 1: SemTalk Welcome Screen

Please select “New” to start SemTalk BPMN Edition. If have already used SemTalk, please open a BPMN template with “File->New” and select “**bpmn.vst**”. File menu options such as “Save”, “Save As” etc. are very similar to other MS Office applications especially to Visio. Most of the Visio commands used by SemTalk can be found in the “Visio” Menu.

SemTalk shows up as follows.

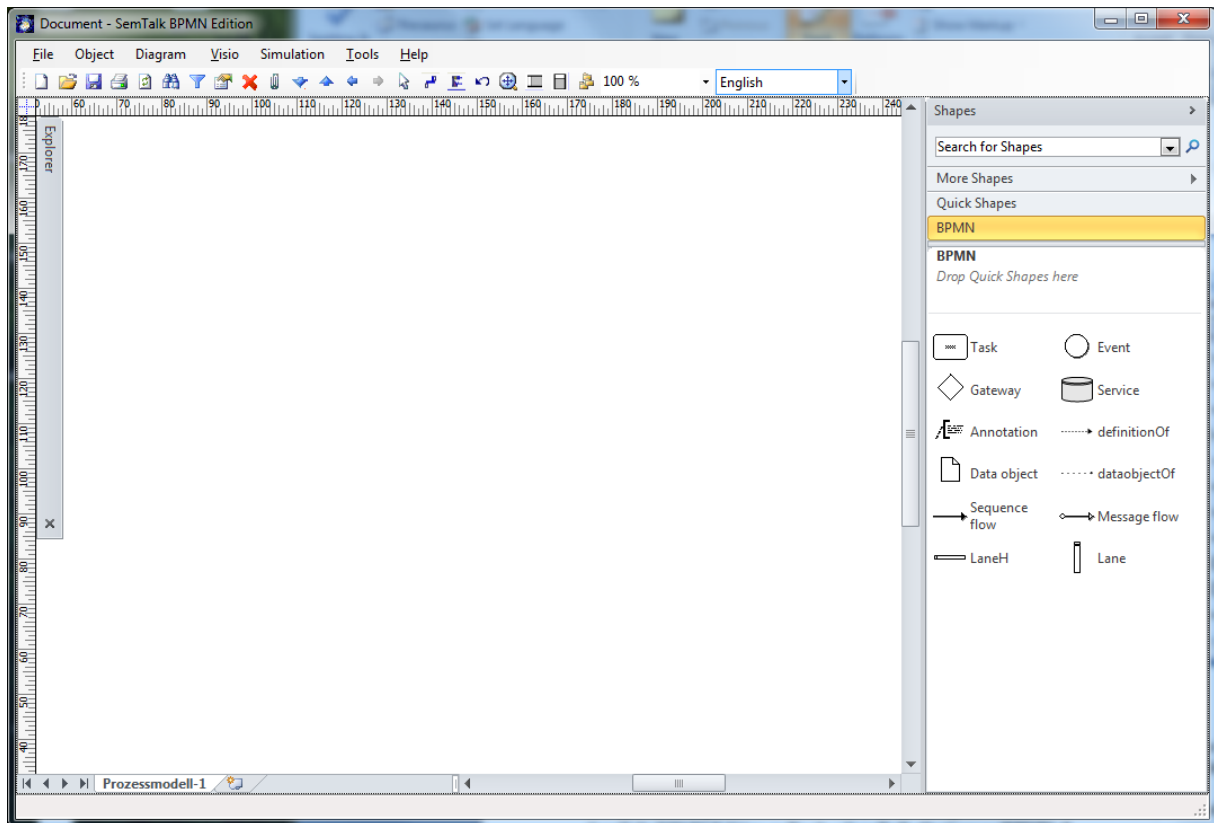


Figure 2: Starting SemTalk BPMN Edition

You can show the SemTalk explorer using the  Button or “Tools->Explorer->Show”. In the Explorer you will get a structured access to those objects contained in your model.

For this tutorial please make sure that you are using the Business Process Analysis Mode of SemTalk BPMN Edition at **Tools->SemTalk Options-> BPMN**.

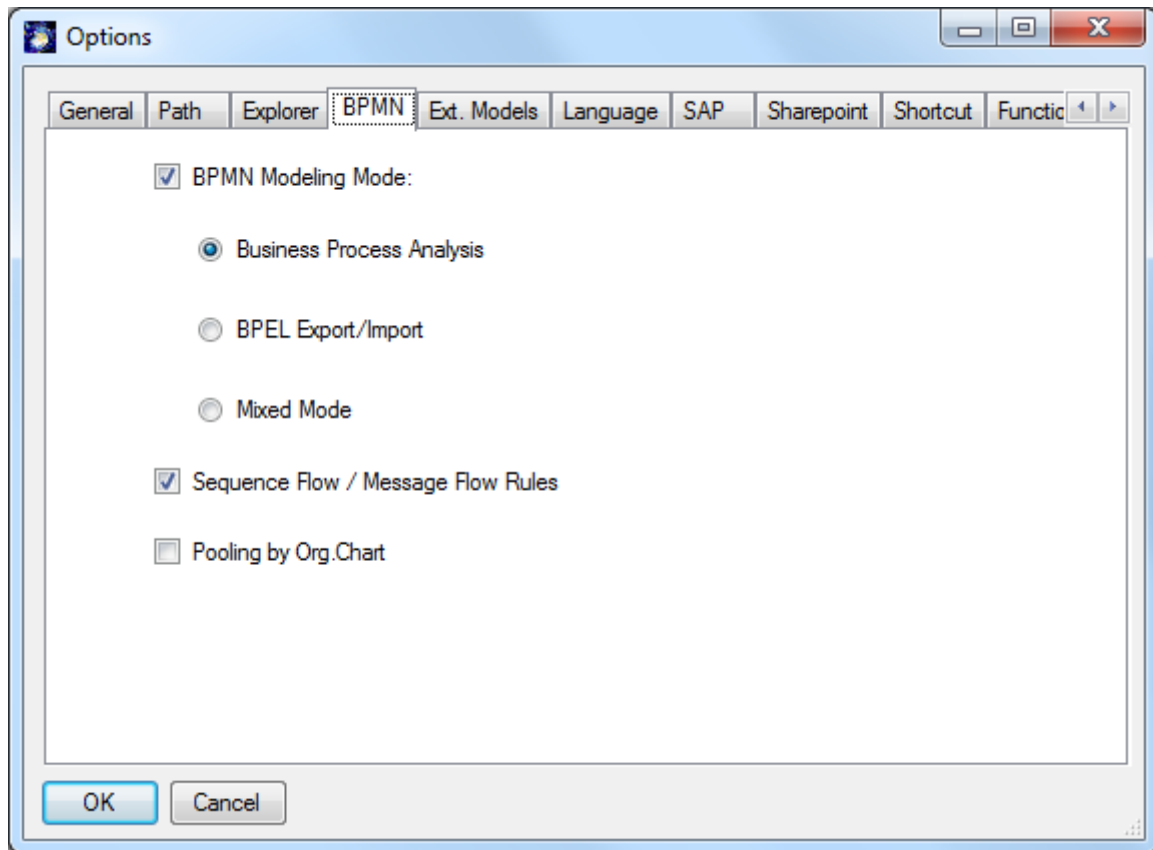
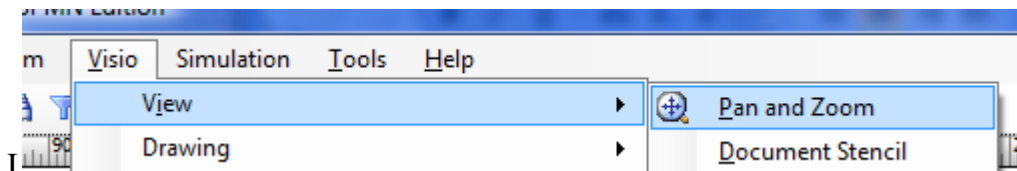
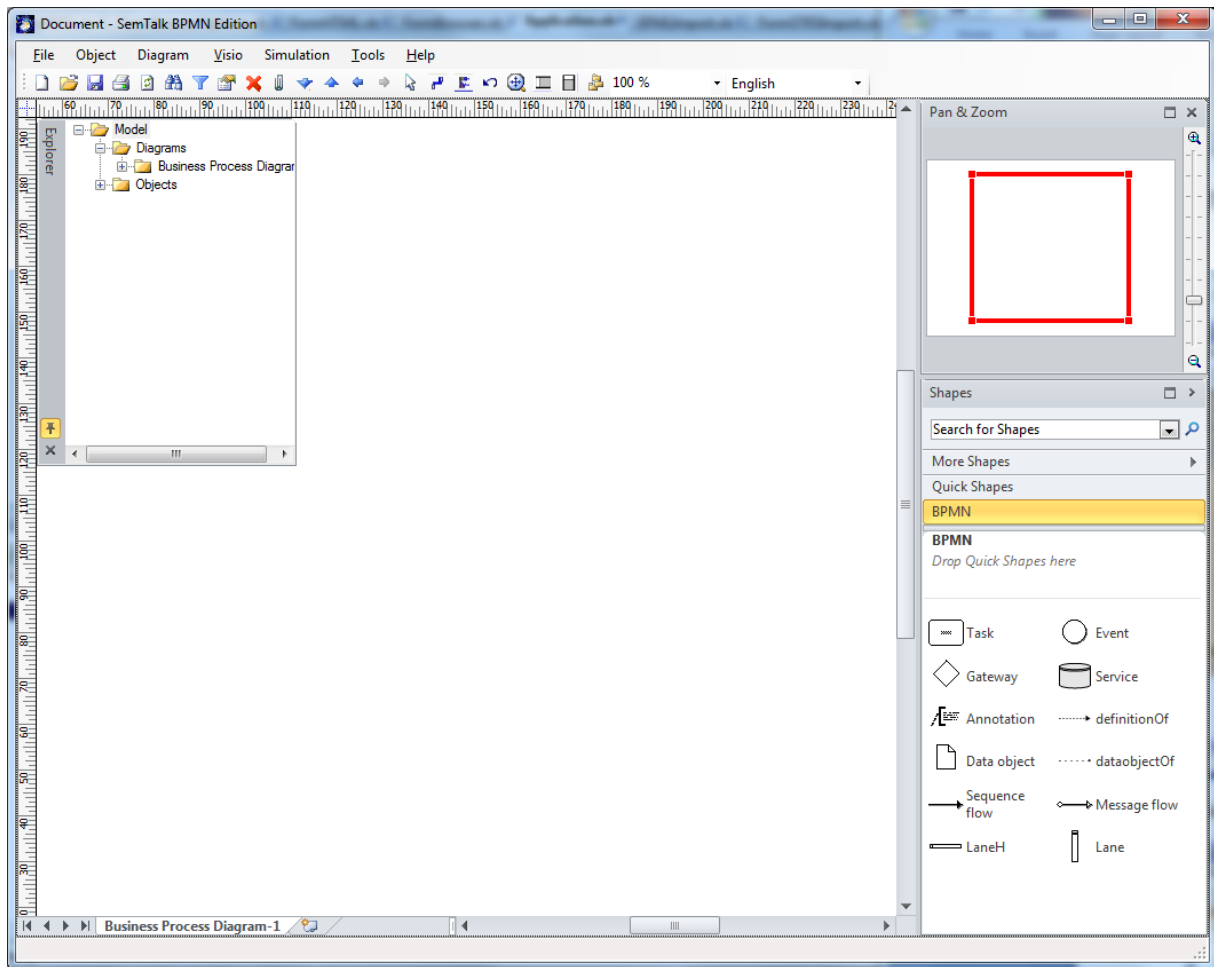


Figure 3: BPMN Modes

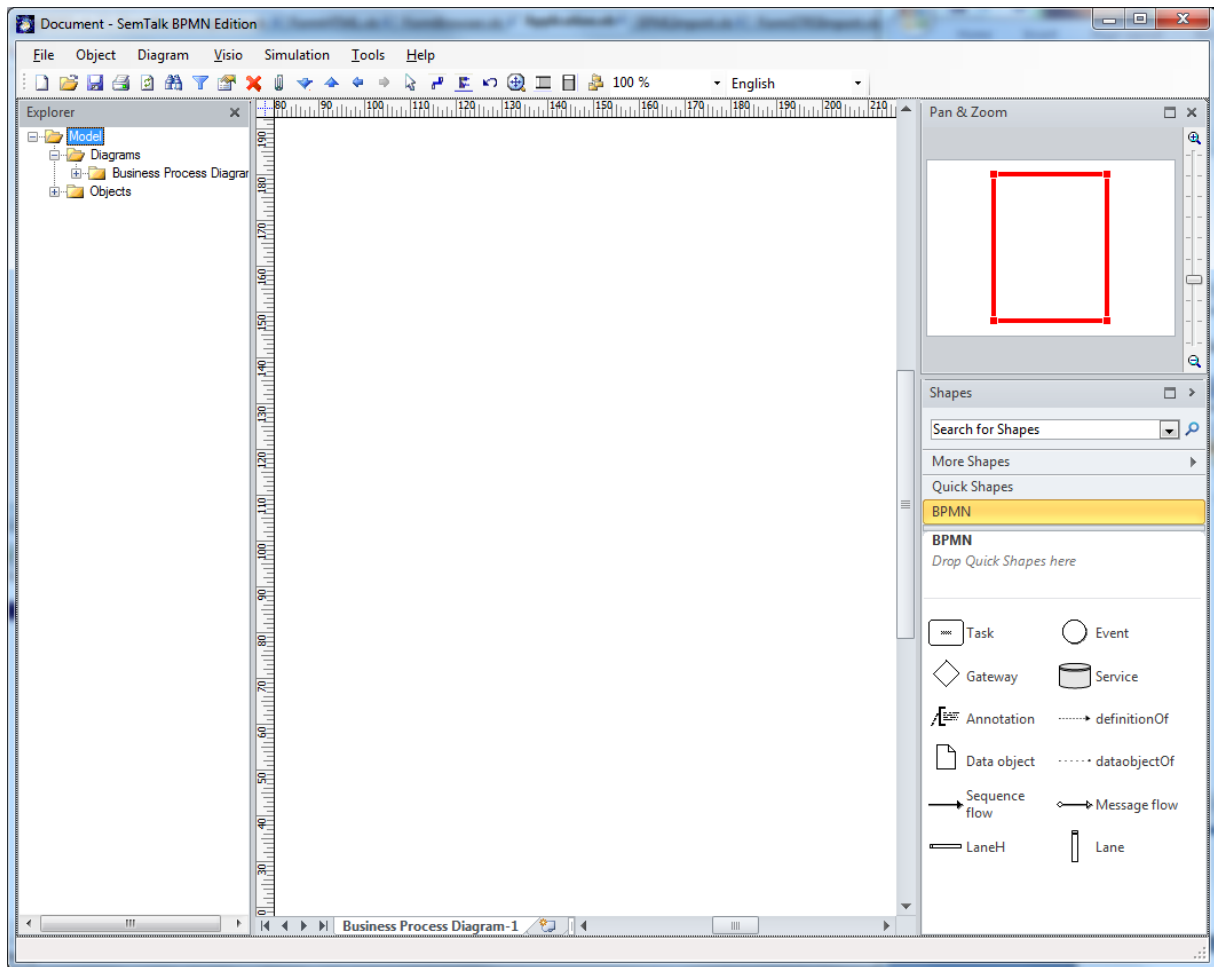
Visio's Pan & Zoom Window can be shown using:



The Explorer, the Stencil Windows and the Pan & Zoom Window can be “docked” to the Borders of the Visio pane with or without the Auto hide mode.



It also can be attached to a border of the Visio document. See Visio's Help for details.




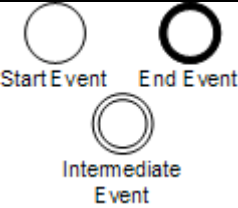
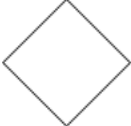
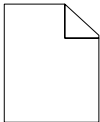
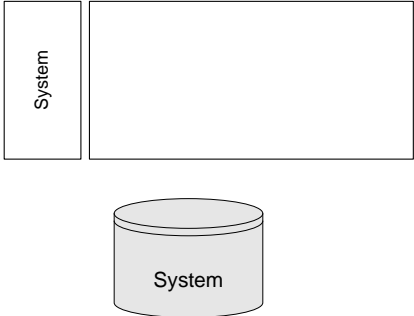
3. Editing a Process

3.1. Adding Process Elements

Please add now elements to the existing process: Simply drag them from the stencil to your diagram (or “Process”). Objects can be renamed by selecting the object and entering the new name.

A process is a sequence of process steps (*Task*). It has well defined interfaces. These are *Start Event* and *End Event*. Between every two of those elements the can be a Sequence flow.

	<p>A Task is an atomic activity that is included within a Process. A Task is used when the work in the Process is not broken down to a finer level of Process Model detail. Generally, an end-user and/or an application are used to perform the Task when it is executed</p>
---	---

 <p>Start Event End Event Intermediate Event</p>	<p>An Event is something that “happens” during the course of a business process. These Events affect the flow of the Process and usually have a cause or an impact. BPMN has restricted the use of events to include only those types of events that will affect the sequence or timing of activities of a process. Start and most Intermediate Events have “Triggers” that define the cause for the event. End Events may define a “Result” that is a consequence of a Sequence Flow ending.</p>
	<p>Gateways are modeling elements that are used to control how Sequence Flow interact as they converge and diverge within a Process. It implies that there is a gating mechanism that either allows or disallows passage through the Gateway--that is, as Tokens arrive at a Gateway, they can be merged together on input and/or split apart on output as the Gateway mechanisms are invoked.</p>
	<p>Data objects do not have any direct affect on the Sequence Flow or Message Flow of the process, but they do provide information about what the Process does. That is, how documents, data, and other objects are used and updated during the Process. While the name “Data Object” may imply an electronic document, they can be used to represent many different types of objects, both electronic and physical.</p>
	<p>Pool</p> <p>Represents major participants in a process, typically separating different organisations. A pool contains one or more lanes (like a real swimming pool). A pool can be open (i.e., showing internal detail) when it is depicted as a large rectangle showing one or more lanes, or collapsed (i.e., hiding internal detail) when it is depicted as an empty rectangle stretching the width or height of the diagram. Pools are realized in SemTalk using Visio Swimlanes</p> <p>Lane</p> <p>Used to organise and categorise activities within a pool according to function or role, and depicted as a rectangle stretching the width or height of the pool. A lane contains the Flow Objects, Connecting Objects and Artifacts. If you do not plan to model activities within a lane, we recommend to “Service” symbol</p>

Adding links is quite simple. Drop the “Sequence flow” shape somewhere on the background. If you hover its ends over an object’s “connections point” you are notified by a red square that you can glue the relation to that object. Select an ending point and glue your relation to the objects of your choice.

After adding some elements and connecting them with the “Sequence flow” connector your diagram looks like this one:

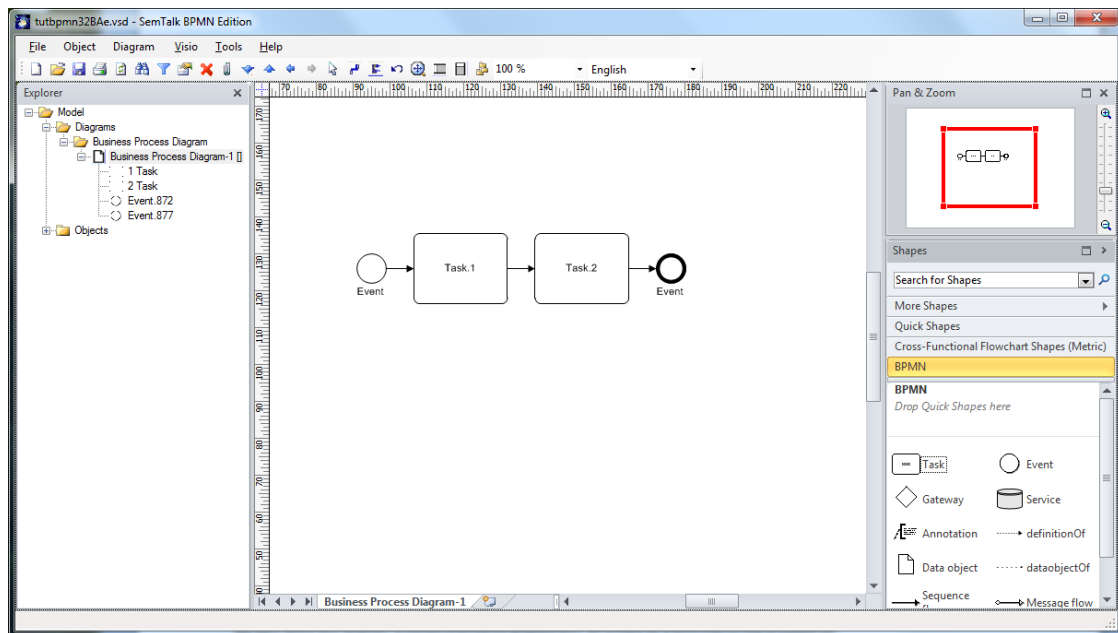



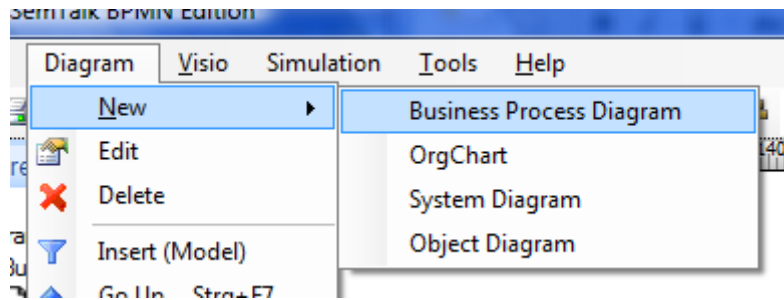
Figure 4: Adding Process Elements

To speed up the creation of diagrams the stamp tool and the connector tool are very useful (both from the Visio-Menu). The connector tool is also available from the toolbar .


BPMN does not display human resources graphically as nodes in a process (even it could be easily customized to do so). In order to do that you must use the Edit Dialog and assign a resource on the “Performers” tab, which will be explained later on. Let first begin with Swimlanes.

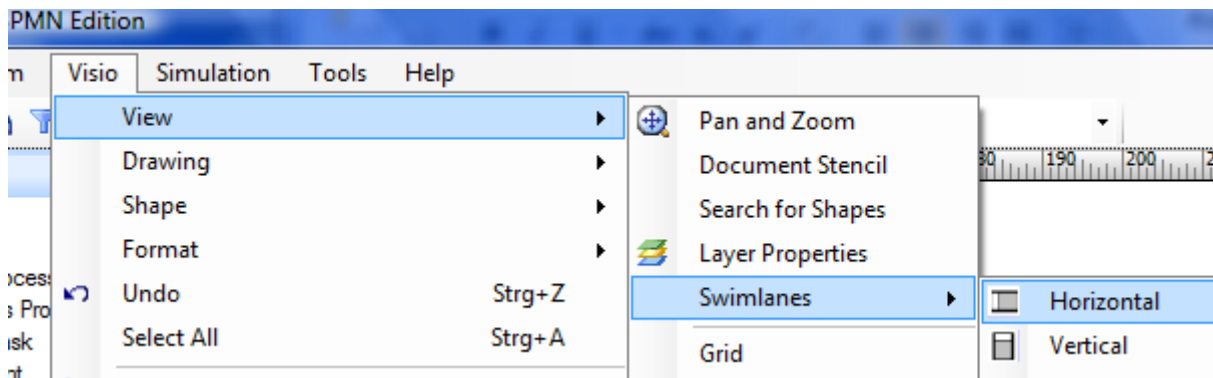
3.2. Using Swimlanes

Let us first create a new process page:



This will create a new Visio Page of diagram class “Business Process Diagram”. You may rename that page directly by renaming the tab or a via a SemTalk dialog (Right Click-> Edit on the background or the menu item “Diagram->Edit”.

Swimlanes are well known from Visio’s Flowcharting stencil. They can be used via the command buttons  or the Visio Menu of SemTalk.



After dropping functional bands on the drawing you select the title area of the Swimlane and go ahead type. Alternatively you can select existing roles or org. units via the right click menu. (“Select”).

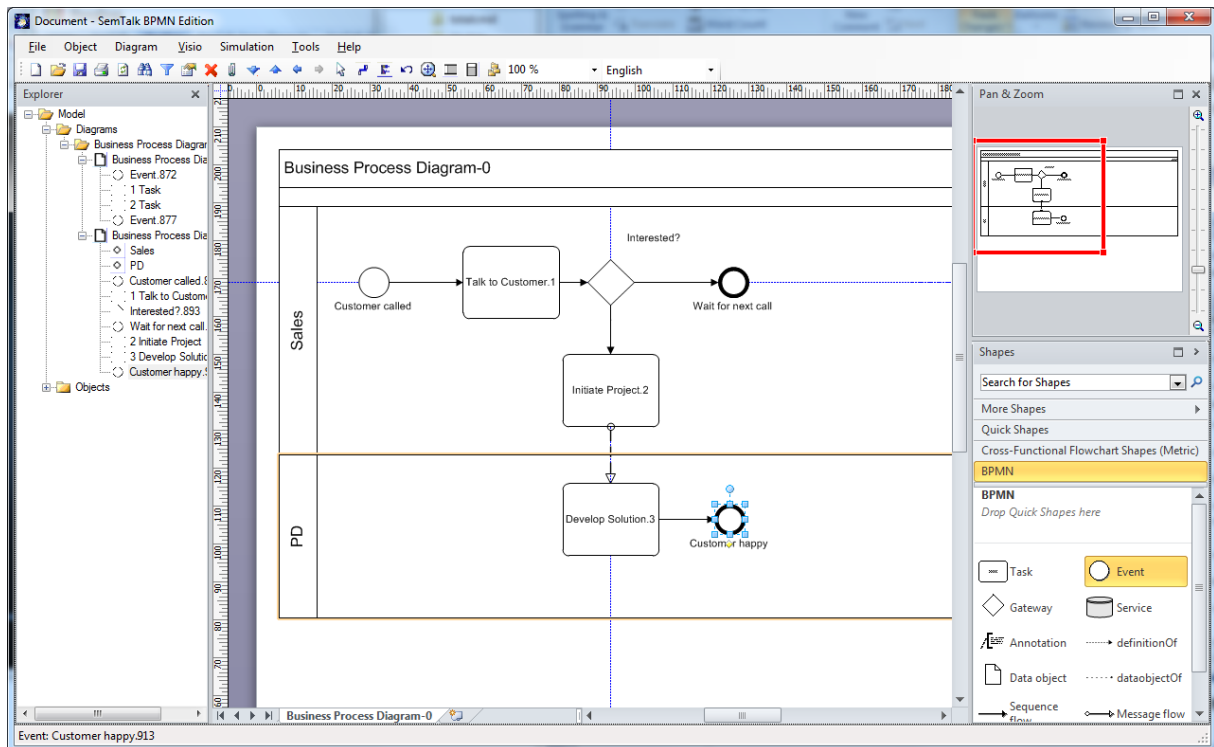


Figure 5: Process with Swimlanes

If you move an activity to a Swimlane this is detected by SemTalk and the function will be assigned automatically to the role of the Swimlane.

If you select the head of a swim lane, you can create new roles just by renaming the Swimlane. Via the right-click menu on the Swimlane you can select existing roles and edit the objects.

Between tasks on different Swimlanes a special link (“Message flow”) has to be used. You may not relate a gateway on one Swimlane with a task on another Swimlane.

Inputs and outputs of task are specified as data objects on the sequence flow.
A process with data objects might look like:

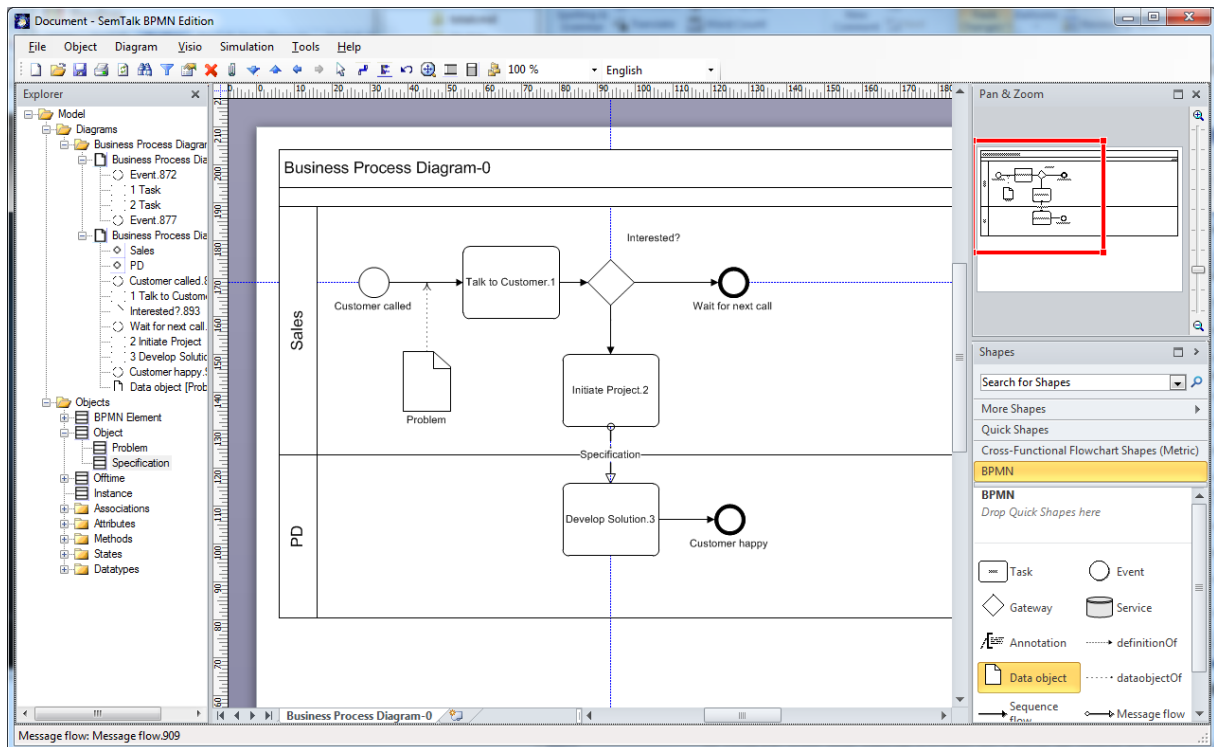


Figure 6: Process with Swimlanes and data objects

In BPMN you can attach Events to a task in order to express, that something happened while the task was executed.

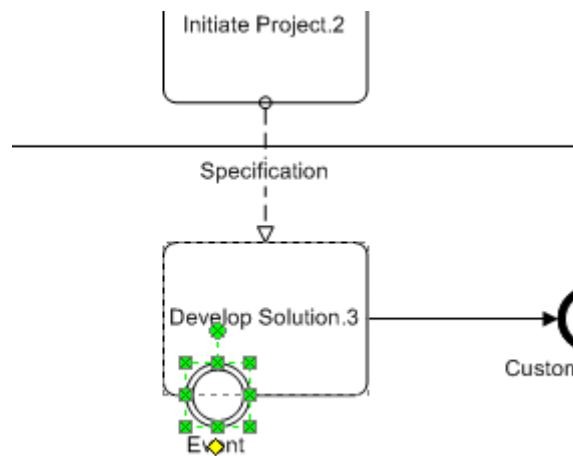


Figure 7: Attaching an Event

Edit the event and select on the "Measures" tab the option "Process Error" as an Event type:

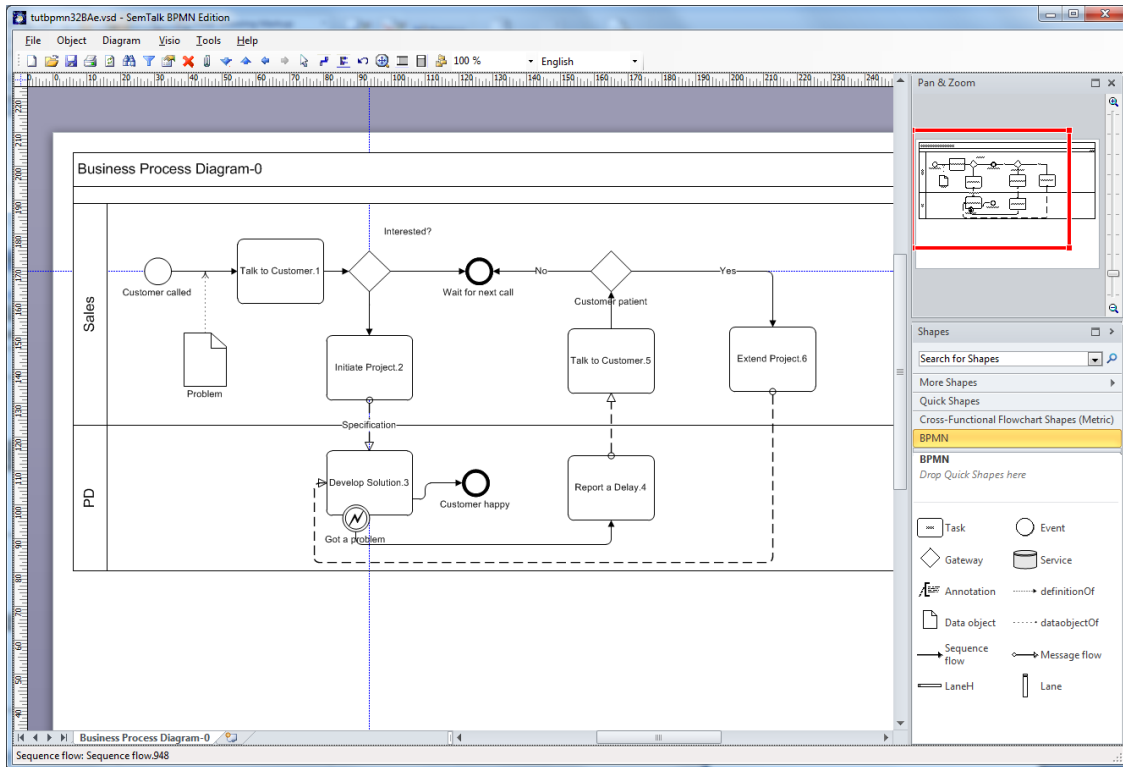


Figure 8: Intermediate Event and Error handling

3.3. Object oriented process modeling

If you select the menu „Object->Compose“ or right click compose, you will have the option to specify object oriented tasks and events.

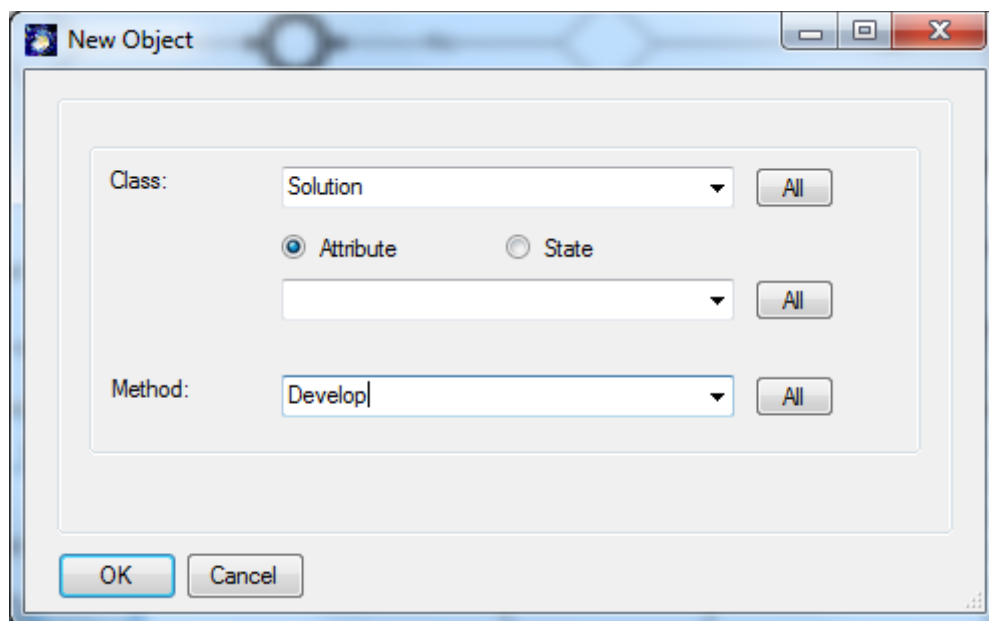


Figure 9: Composing object oriented tasks

Class is the object the task is related to. You can reuse existing classes or create new classes in a bottom up style. E.g. “Bid” is the class at “make Bid”

The options **State** and **Attribute** allow to specify which of these feature will be used to create the activity name. For the BPMN methodology only methods are relevant for activities.

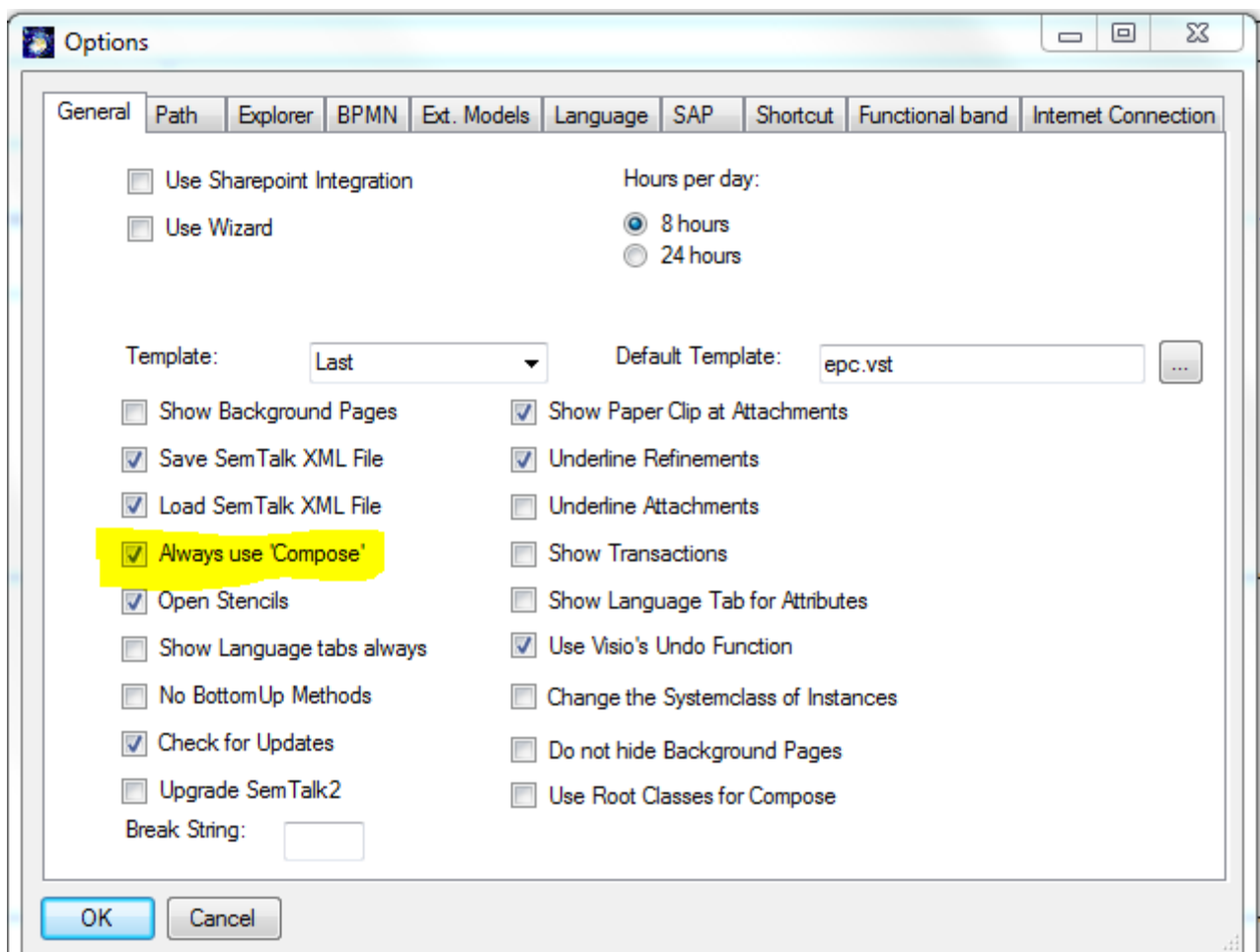
In the combo box **Method** the name of the method (or verb) can be entered newly or be selected from the already defined methods of the class

SemTalk creates the class and method in case they do not exist in the database yet. In our example a class named “order” with the method “enter” will be created.

The whole idea about compose is, that the name of the task is generated from the name of the class and the name of the method. If classes or methods are being renamed, the name of the activity is being updated. Note that method (as well as attributes and state) can be inherited from super classes.

The order of how the name of the activity will be generated is language specific („Order Enter” or “Enter Order”). You can change it as a general setting in the SemTalk options dialog. For English you will use “Method Object”.

You can also specify to use “Compose” on any new activity:



A newly created Process with some object oriented functions:

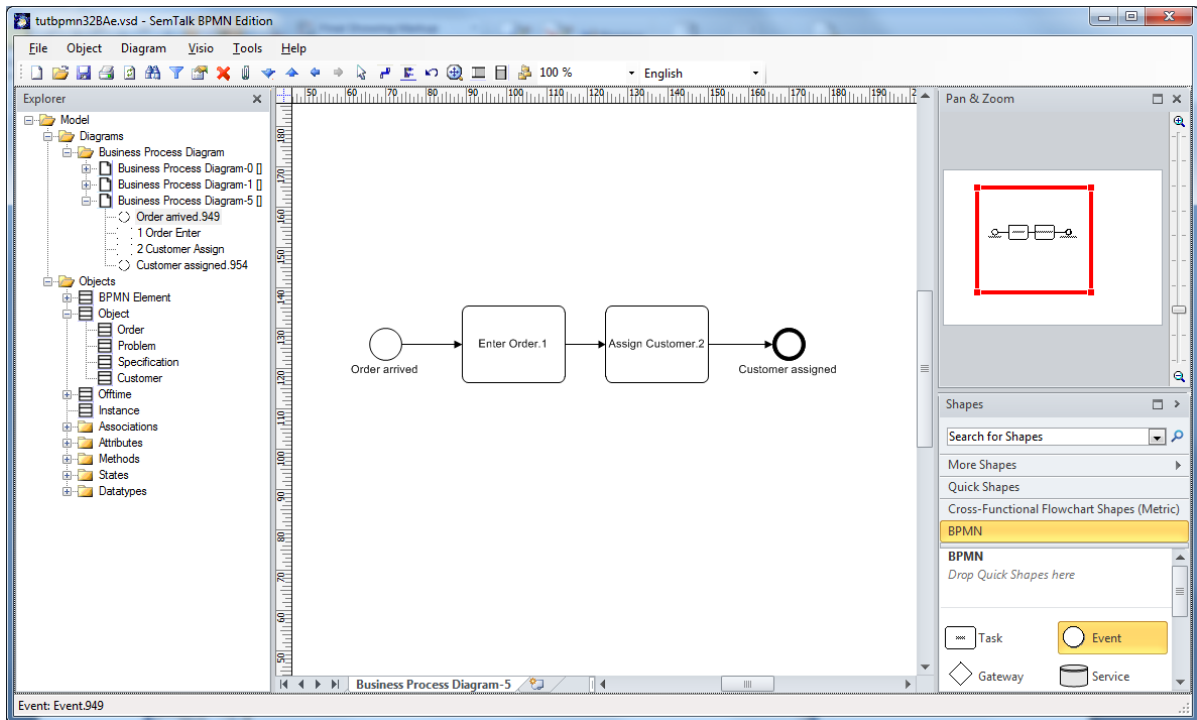


Figure 10: An object-oriented Process

The objects “Order” and “Customer” are created by SemTalk in behind the scene. A diagram of these (and some others) will look like this:

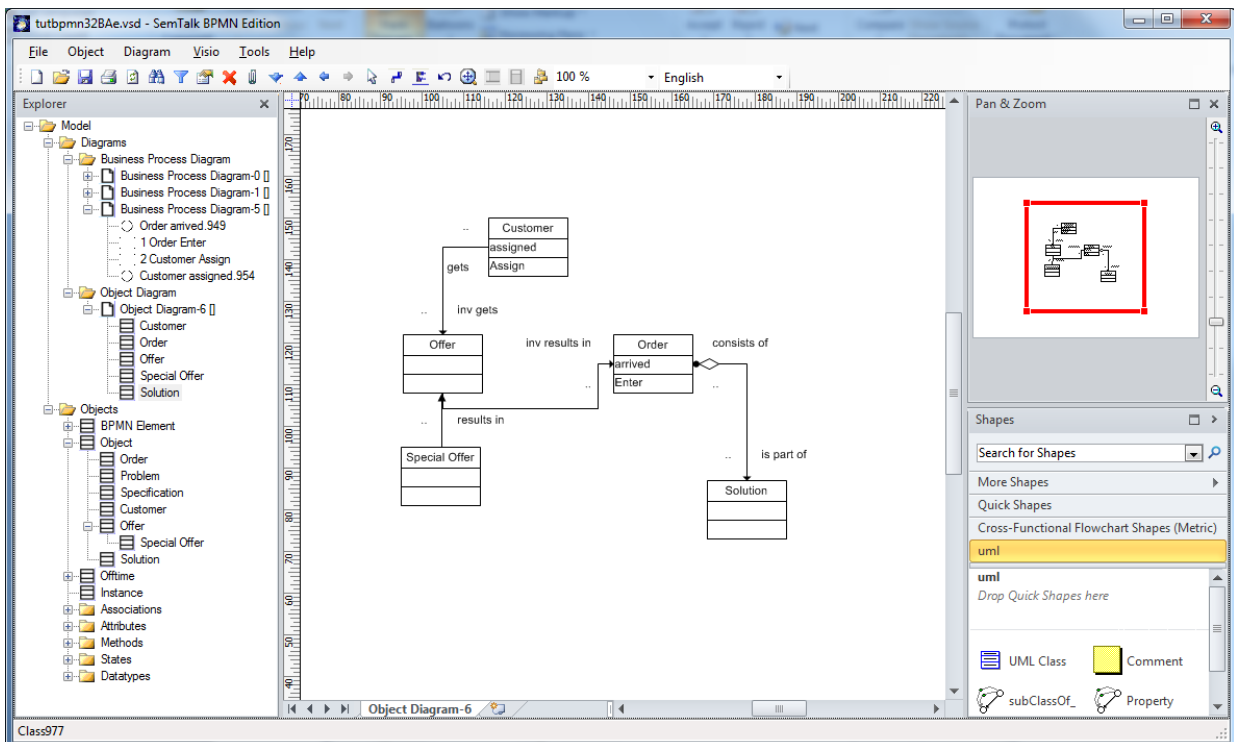


Figure 11: Object Diagram

If you make „Special Offer“ a subclass of „Offer“. “Special Offer” will inherit all methods from “Offer”. In the compose dialog those inherited methods will be shown in the method combo box.

SemTalk ensures the consistency between object models and process models. If you rename a class or method all depending functions will be updated.

We recommend object oriented process modeling especially for large projects. It is a good idea to define in a first step the most important business objects and build a catalogue of methods (verbs). This is the foundation of consistent process models.

If you are going to use the same business objects in multiple projects we recommend to store such object libraries in separated files and publish them on intranet or extranet. The SemTalk Wizard will ensure that those libraries are used consistently.

3.4. Editing process elements

You can now edit the objects on your diagram:

1. By double clicking or
2. Right Click “Edit” or
3. Select & Menu “Object->Edit” or
4. Find it in the explorer as a child of “Diagrams->Process->Process-6” or
5. Find it in the explorer as a child of “Objects->”.

In case you just want to rename the object, you can select it and type-in the new name. You may also use the Properties Window, which allows reviewing and changing the values directly. (Tools->Explorer->Properties)

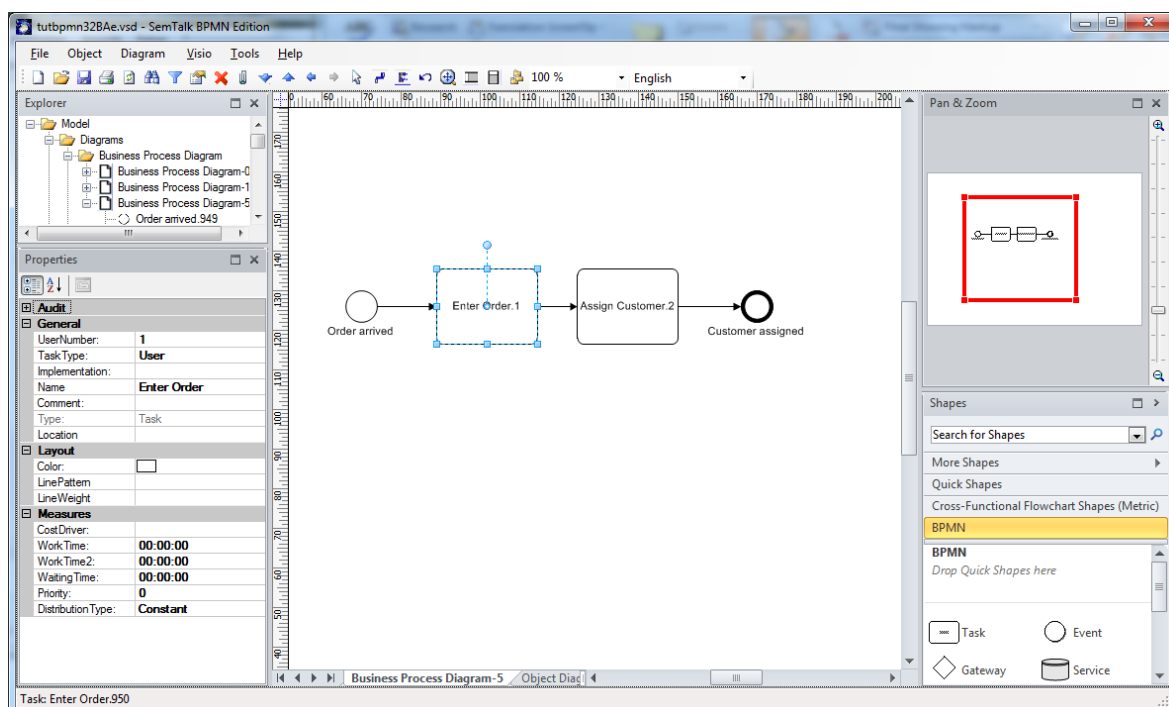


Figure 12: Properties Window

3.4.1. Task Dialog

The task dialog looks like this:

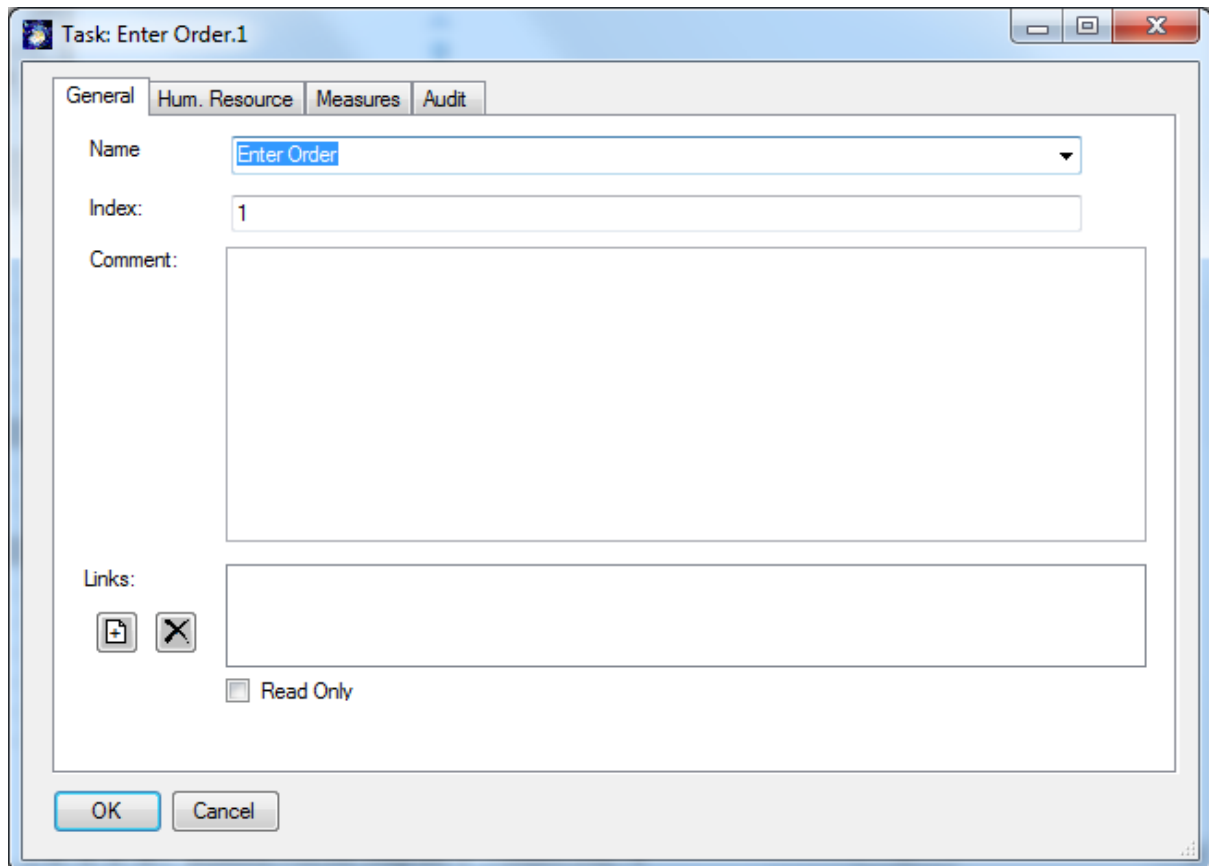


Figure 13: Task Dialog

Links (hyperlinks, attachments, documents), can be added with the right click menu “New” (“+” button), changed and removed by the right click menu “Remove” (“-“ button) on the background of the links list. Double clicking the link in the listbox opens that document with the (for windows) associated application. Activities having at least one link will show up with a little marker in the upper left corner.

NOTE: In order to change all occurrences of the task you must edit the class itself using “Object->Edit Class”.

NOTE: The “General” tab is a generic SemTalk tab and not a BPMN specific one.

3.4.2. Task: “Hum. Resource” Tab

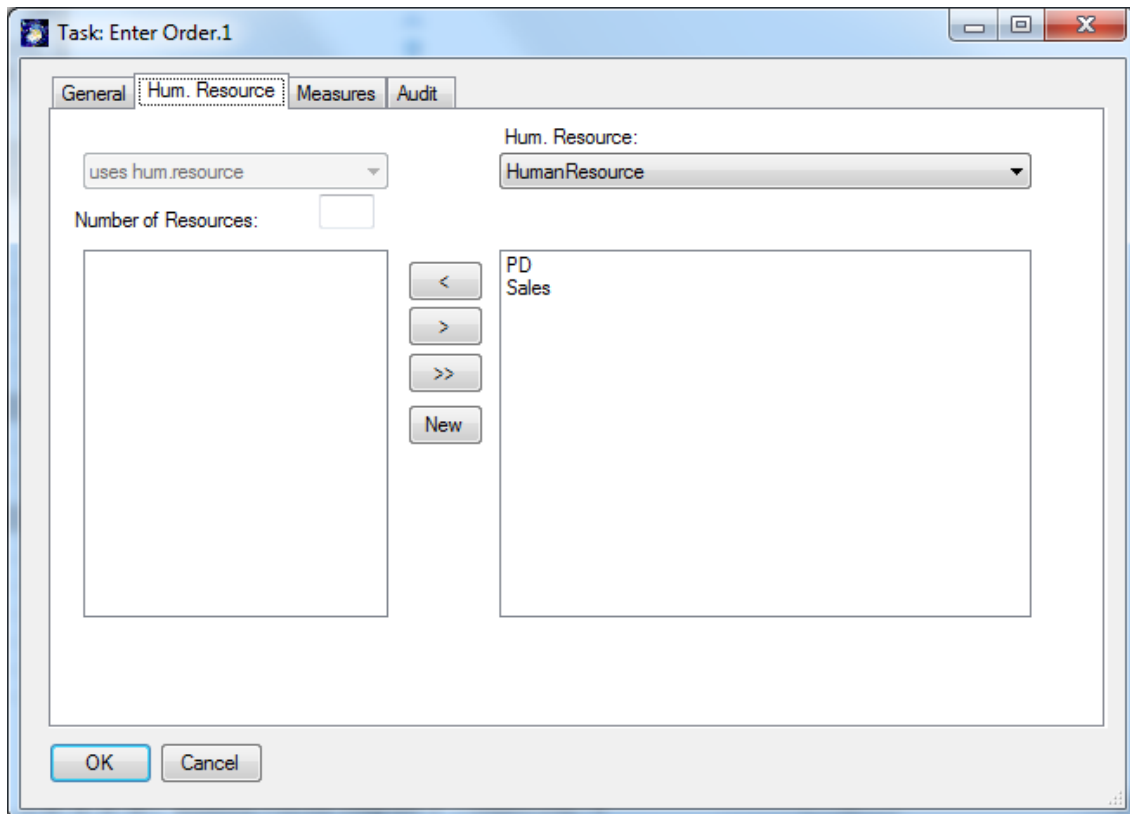


Figure 14: Task: Hum. Resource

On the “Hum. Resource”-tab you can assign “Participants” to the task. These are people, roles or organizational units which actually execute the task. The left hand list box shows the currently assigned resources and the right hand list box shows the list of all available human resources.

You may use the arrow buttons to add / remove resources. Double clicking in the list boxes will edit the resource.

The right combo box having the selection “Human Resource” allows to filter resources by class.

The left combo box having the selection “uses hum.resource” allows” to specify certain types of execution such as “controlled by” or “supervised by”.²

Using the new button you can add new human resources and new human resource classes. The new instance will automatically get the class which is selected in the combo box.

² These could be defined as subclasses of the relation “executes”

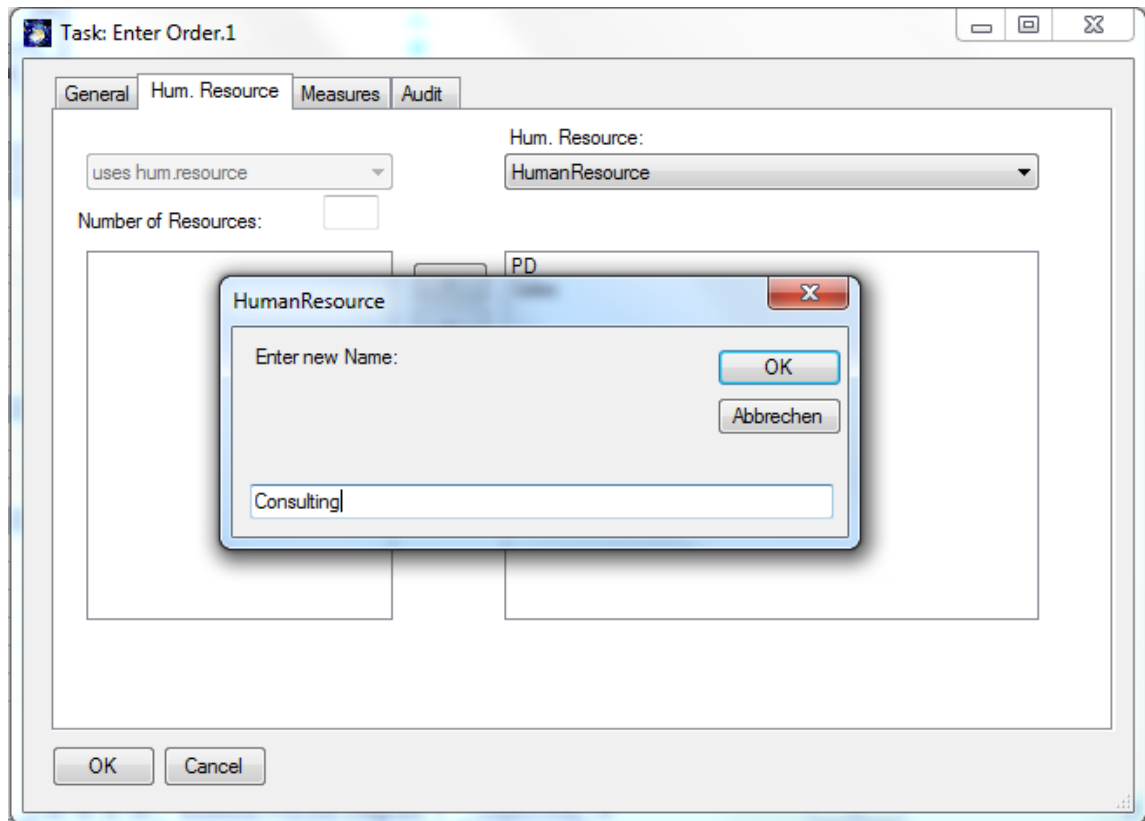


Figure 15: Adding new Human Resources

You can see / edit all existing resources in the explorer as child nodes of "Human Resource"

3.4.3. Task "Measures" Tab

The "Measures" tab allows the processing time, fixed cost, variable cost and probability. Some of these attributes are used in reports and at MS Project export.

Task: Enter Order.1

General Hum. Resource Measures Audit

Task Type: User

Cost Driver:

Priority: 0

Distribution: Constant Value

Processing Time: Days Hrs. Min. Sec.

Waiting Time: Days Hrs. Min. Sec.

Interruption: Resume Restart

OK Cancel

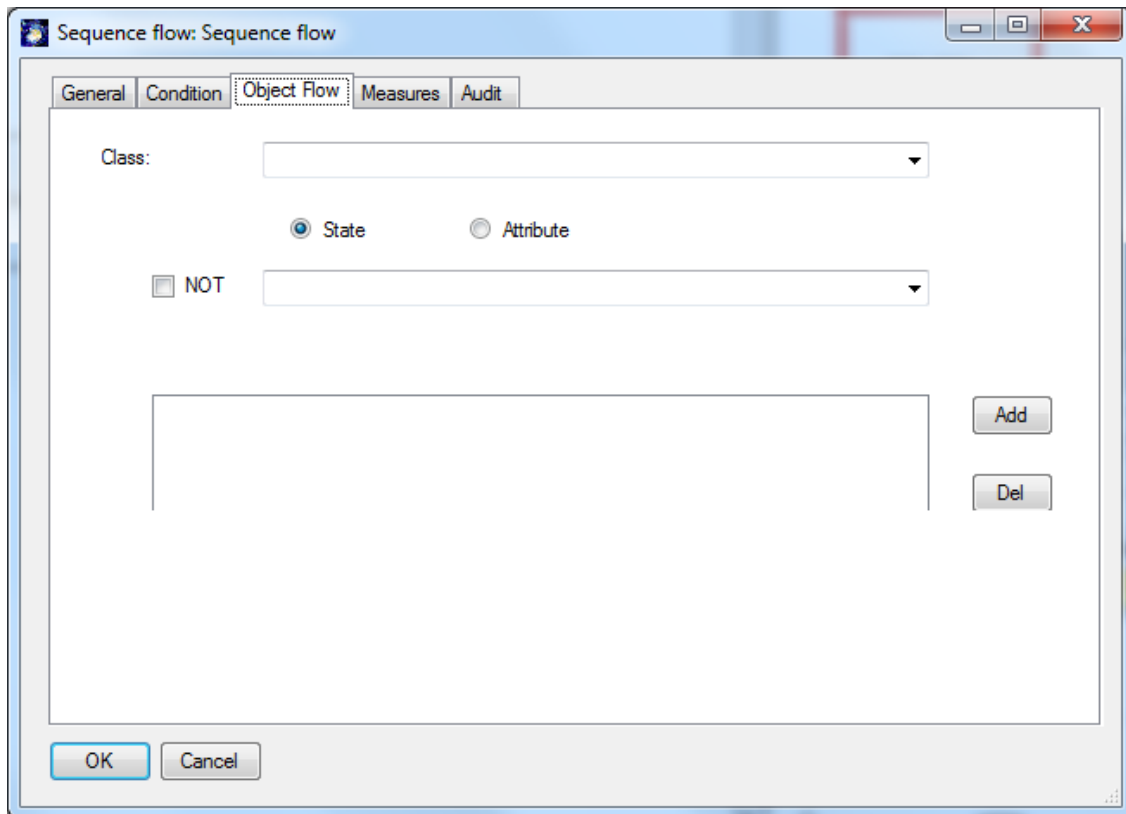
Figure 16: Task: Measures

Relevant for simulation, the work plan report, MS-Project etc is especially the “Processing Time”. For all others please see the Simulation Tutorial.

3.4.4. Sequence Flow Dialog

Note on BPMN Methodology:

A Sequence Flow is used to show the order that activities will be performed in a Process.



The “Object Flow” tab allows you to specify which data object, is “flowing” between the two connected tasks. Editing the data object itself, will open the Sequence flow dialog also.

You can select existing objects from the comboboxes. If you select an existing object or enter a new one, you must push the “Add” button in order to add it to the list of objects that flow.

Object composition is done similar to the “Compose” for tasks.

Class is the object. You can reuse existing classes or create new classes in a bottom up style.

State (and Attribute) is the state of the object which is being send e.g. “Order entered”.

You can remove an object from the list by double clicking it or by using the “Del” Button.

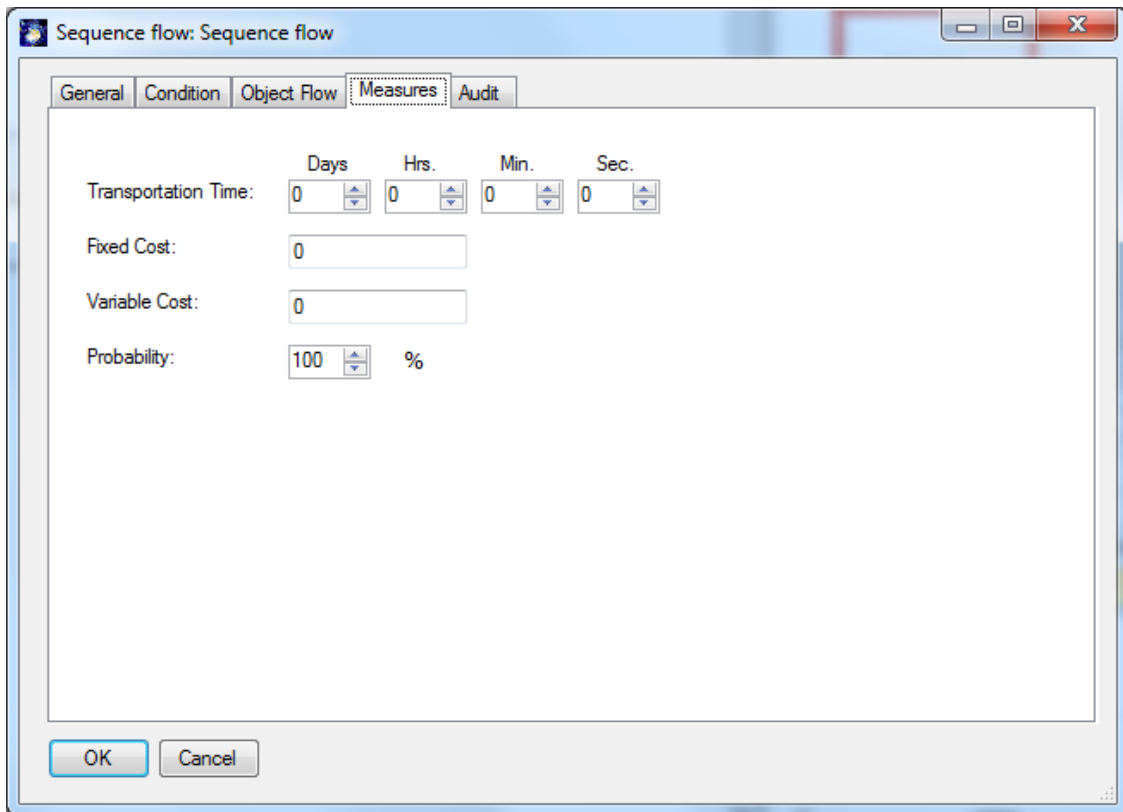


Figure 17: Sequence Flow: Measures

The “Measures” tab allows the specification of transportation time, fixed cost, variable cost and probability.

NOTE: You can glue relations to any point on the object if you select the Visio option “Glue to geometry”

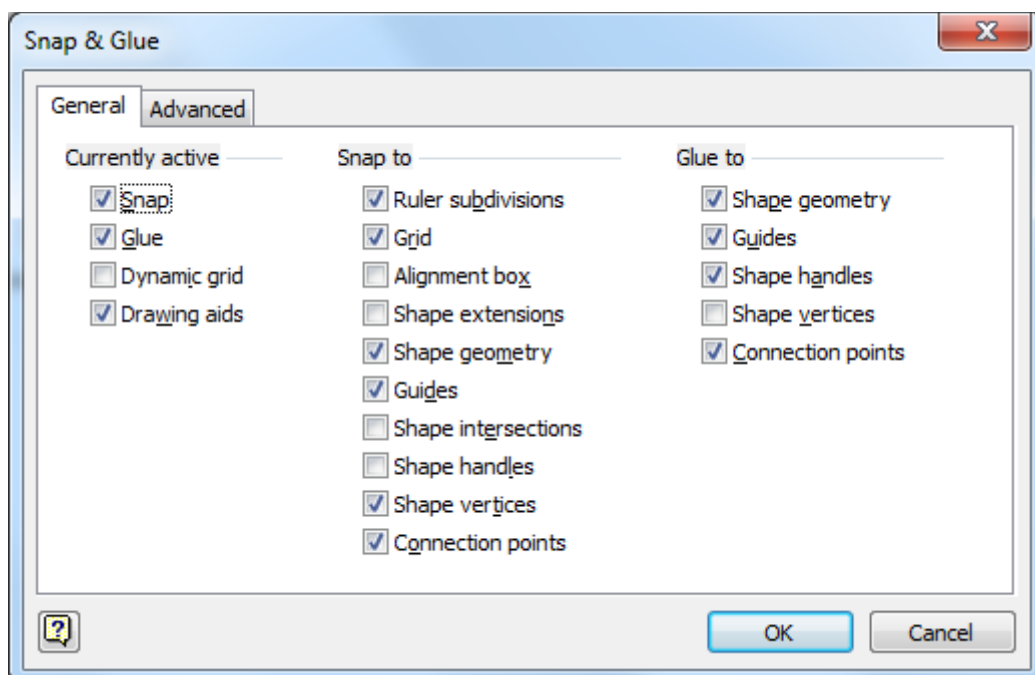


Figure 18: Visio: Snap& Glue Options

4. Org Charts

Org Charts are used to describe the organizational structure of your company graphically. You may add new element using shapes for Org Unit and Position and connect them with then “superior of” connector.

Using Diagram->Insert (Model) you can add the existing org units “Sales” and “PD” to the org chart.

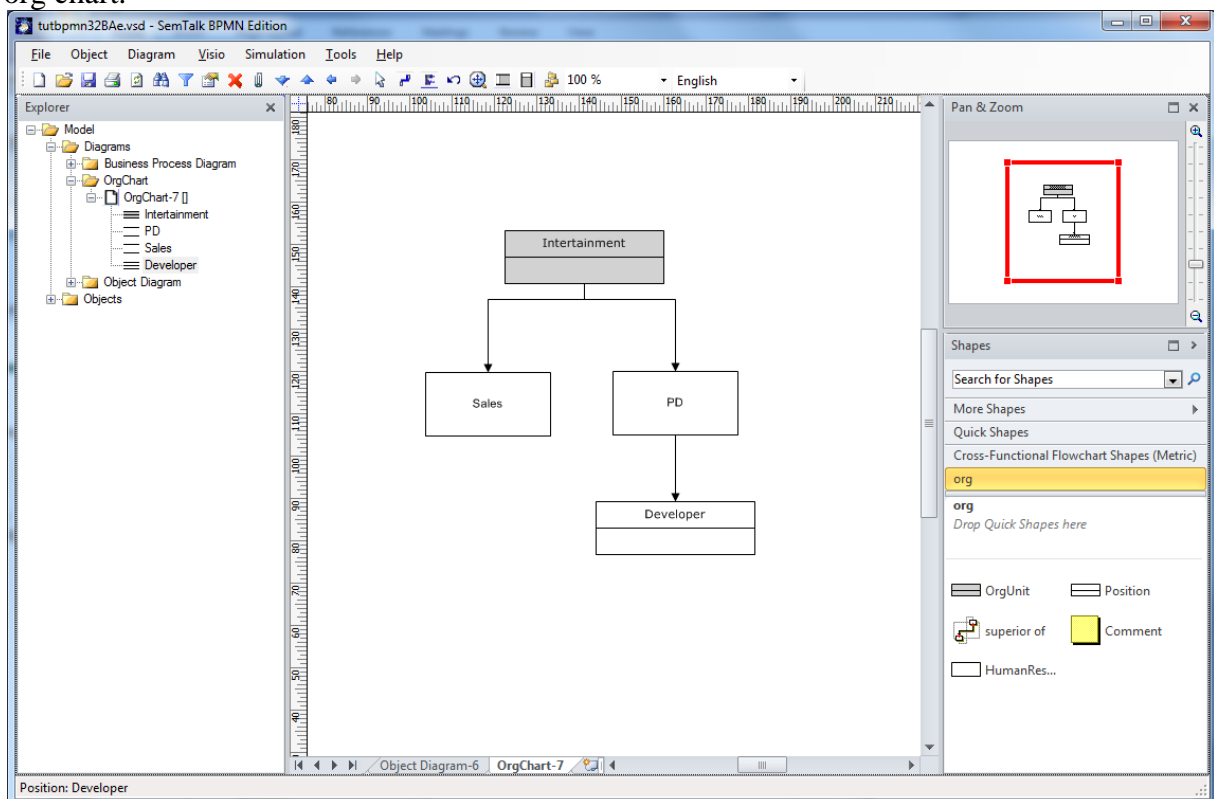


Figure 19: Org Chart

If you change the “Class” of PD and Sales to “OrgUnit” using the Edit dialog, you also may change their shape to the OrgUnit Master (Object->Change Master).

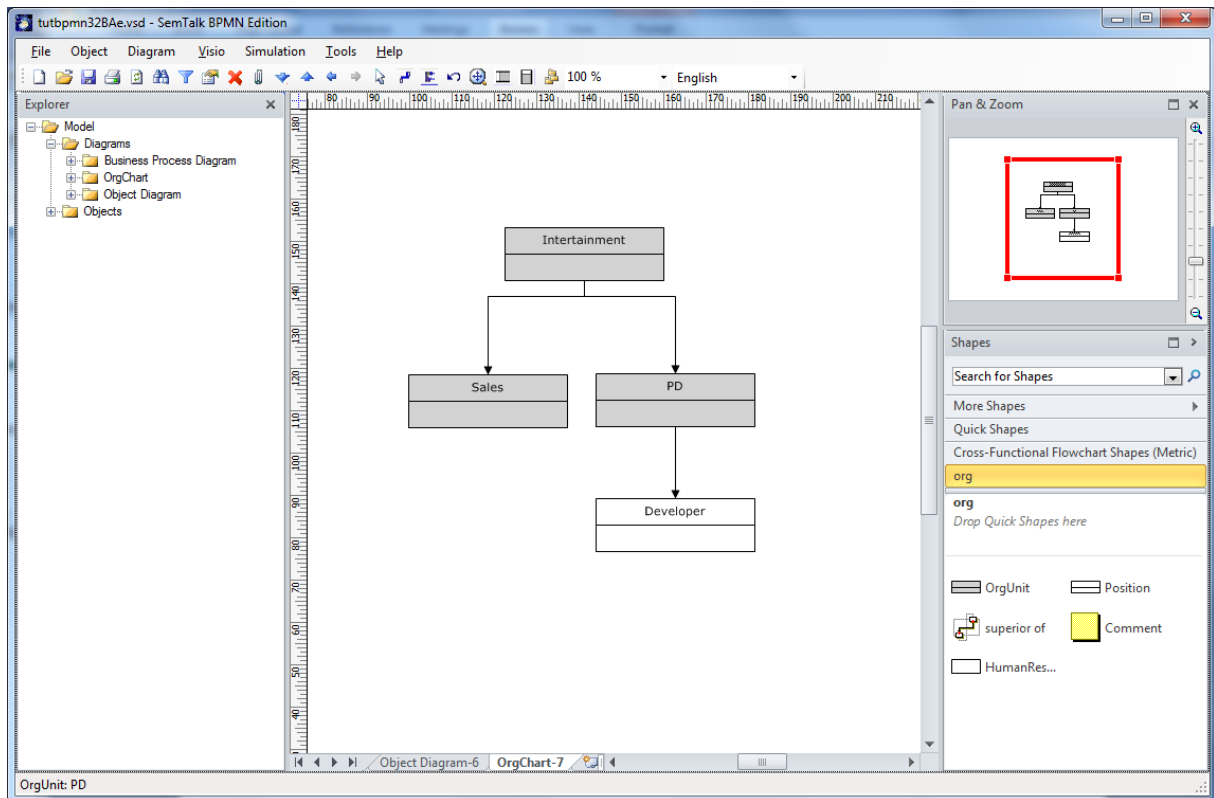


Figure 20: Org Chart

If you edit an org unit or position, you may add persons to the element.

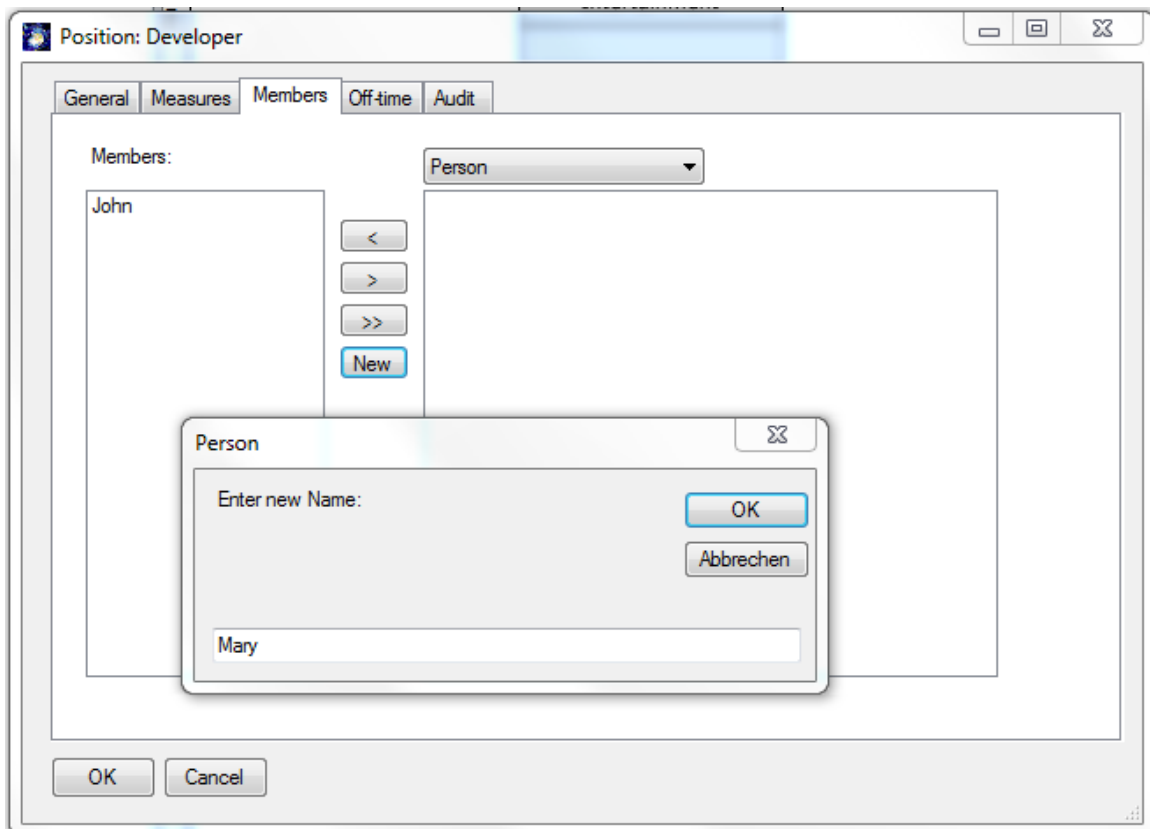


Figure 21: Adding Persons

The person can be edited directly by double clicking in the list. Any organizational unit is a resource with measures like fixed cost, variable cost and a capacity.

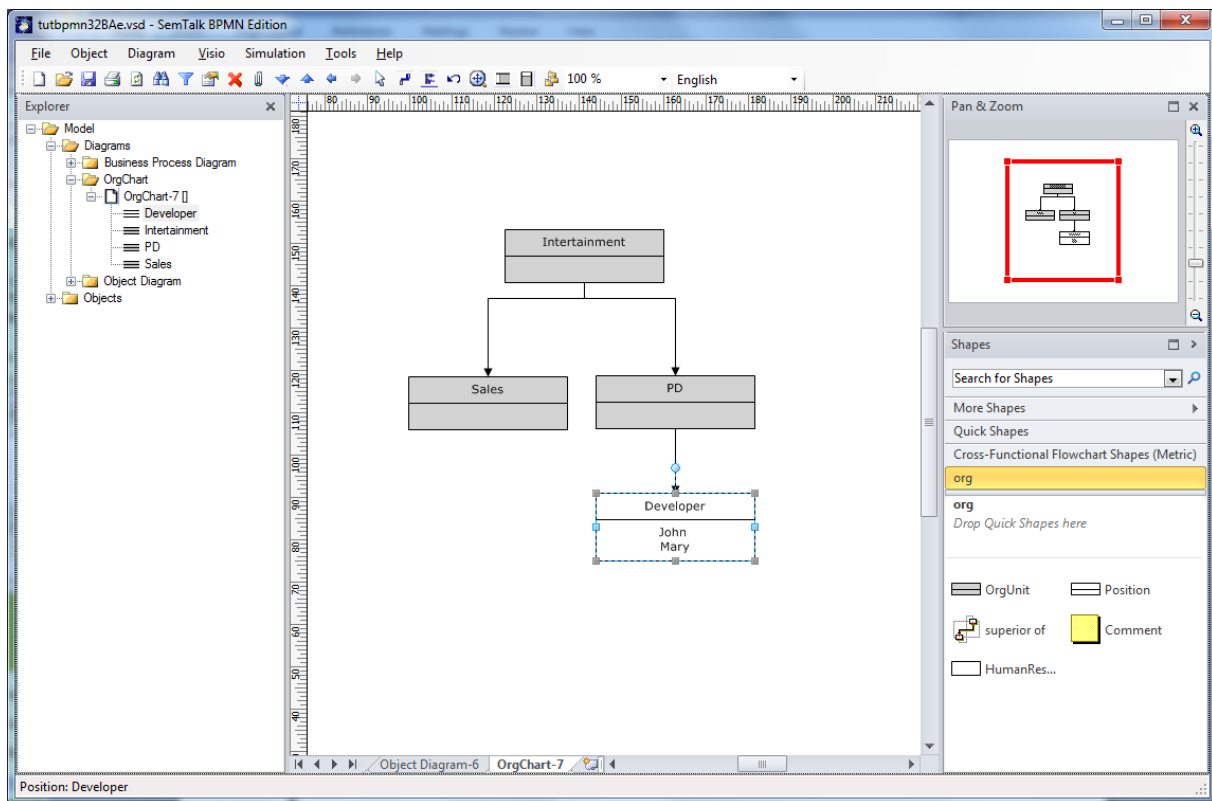


Figure 22: Org Chart with Persons

5. Class Diagrams and Mastershapes

Open a Visio Stencil using File->Open Stencil or search for a Visio shape. Please open the Visio Stencil „Enterprise Application“ (ENTAPP_M.VSS, ENTAPP_U.VSS) for additional Visio Masters. You will find the stencil for Visio 2007 at „C:\Program Files\Microsoft Office\1031“ or for Visio 2003 at „C:\Program Files\Microsoft Office\VISIO11\1031“.³ For Visio 2010 use “More Shapes->Software and Databases->Software-> Enterprise Application”

If you drag an arbitrary Visio master onto your process sheet, SemTalk does not recognize the shape in the context of the current modeling method. A Dialog is shown, which allows to select the appropriate modeling construct. For example a Laptop should be used as an alternative symbol for system. “Ignore” just accepts it as a Visio shape and does not add it to the SemTalk database.

³ If you are using Visio Shapes frequently, it makes sense to change file path for stencils (2003) or “My Shapes” (2007) using Visio’s options dialog.

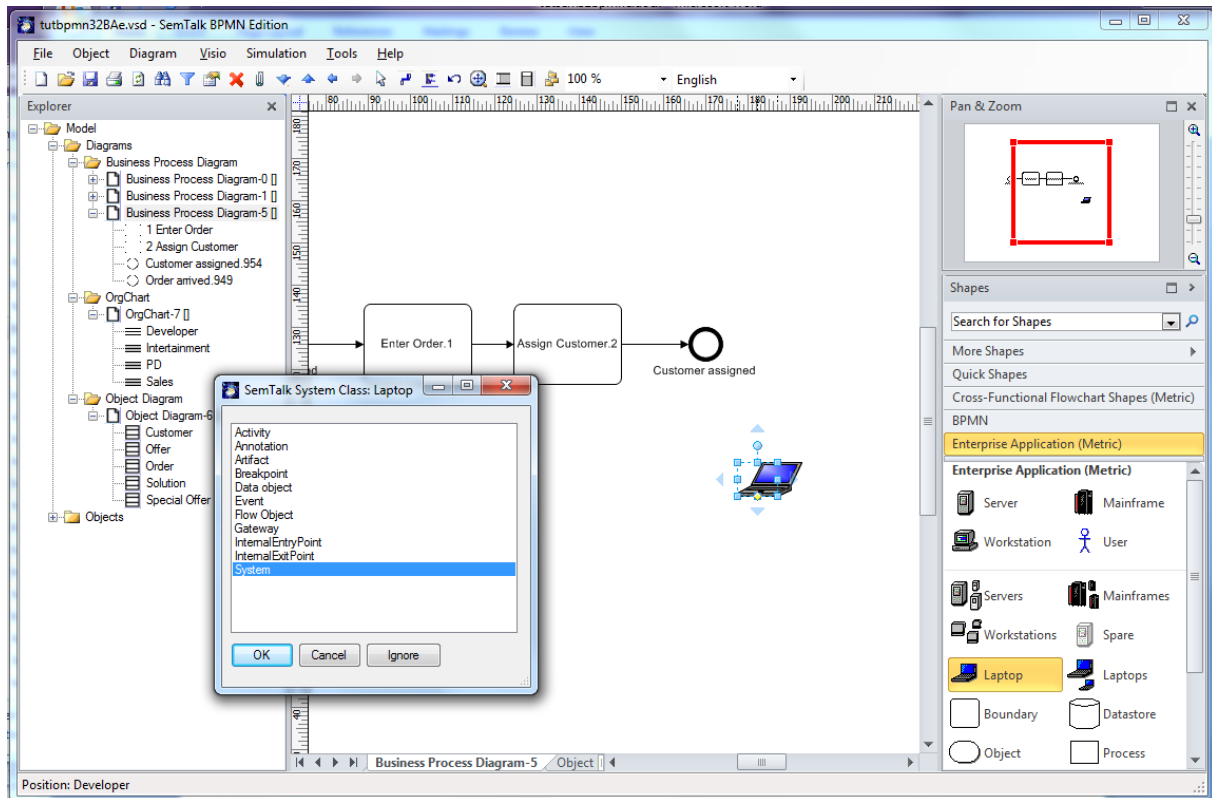


Figure 23: Adding an arbitrary Visio Shape to a process

Visio masters, which as used as alternative Visio masters can not be used for new classes anymore.

Instead of this bottom up approach we can also define new classes of systems on class pages. Create a new diagram of type “System Model” and drop some shapes there again.

In the new diagram you can create classes and subclasses with attributes and associations. To add a new class, please use the “UML Class” shape. A “subClassOf” (or is a) relation between two classes is created with the “subClassOf” connector. Associations are made with the “Property” connector. It is a special behavior of class diagrams, that every class is automatically a subclass of their root class, which is in this case the class System.

You can also add new classes by opening a Visio stencil or search for a shape. Drop the shapes onto a System Model. Now you can create further subclasses and super classes.

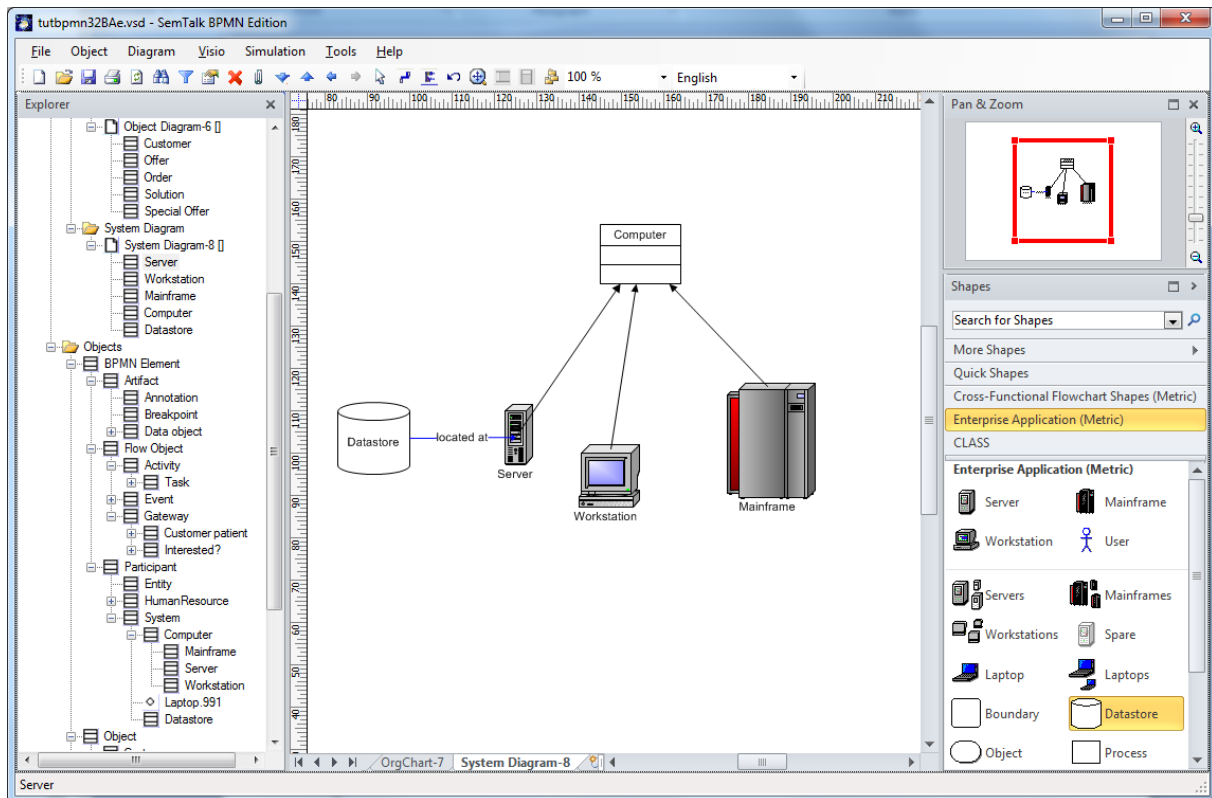


Figure 24: Classes of Systems

We have used the Visio shapes for Data store, Server etc⁴. Computer has been created using the UML Class master.

The properties of the Visio master are becoming attributes of the class. In the following picture you can see the attributes coming from Visio such as “Serial Number” and “Asset Number” and the inherited attributes coming from the root class “Participant” marked with a “*”.

⁴ These shapes are much easier to use if you turn of “Snap to Member” (Format->Behavior)

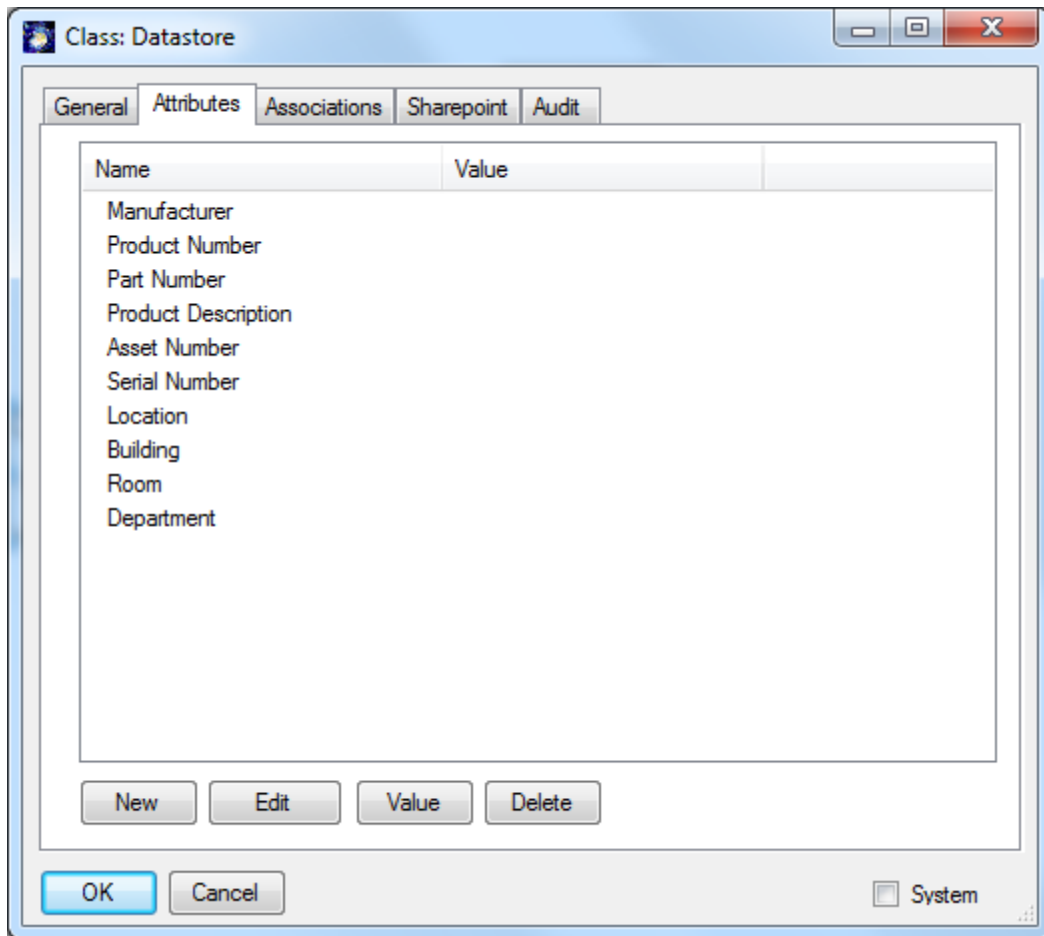


Figure 25: Attributes imported from Visio Masters

Now let us assume we need a class named CRM-System. We can simple define a subclass of data store.

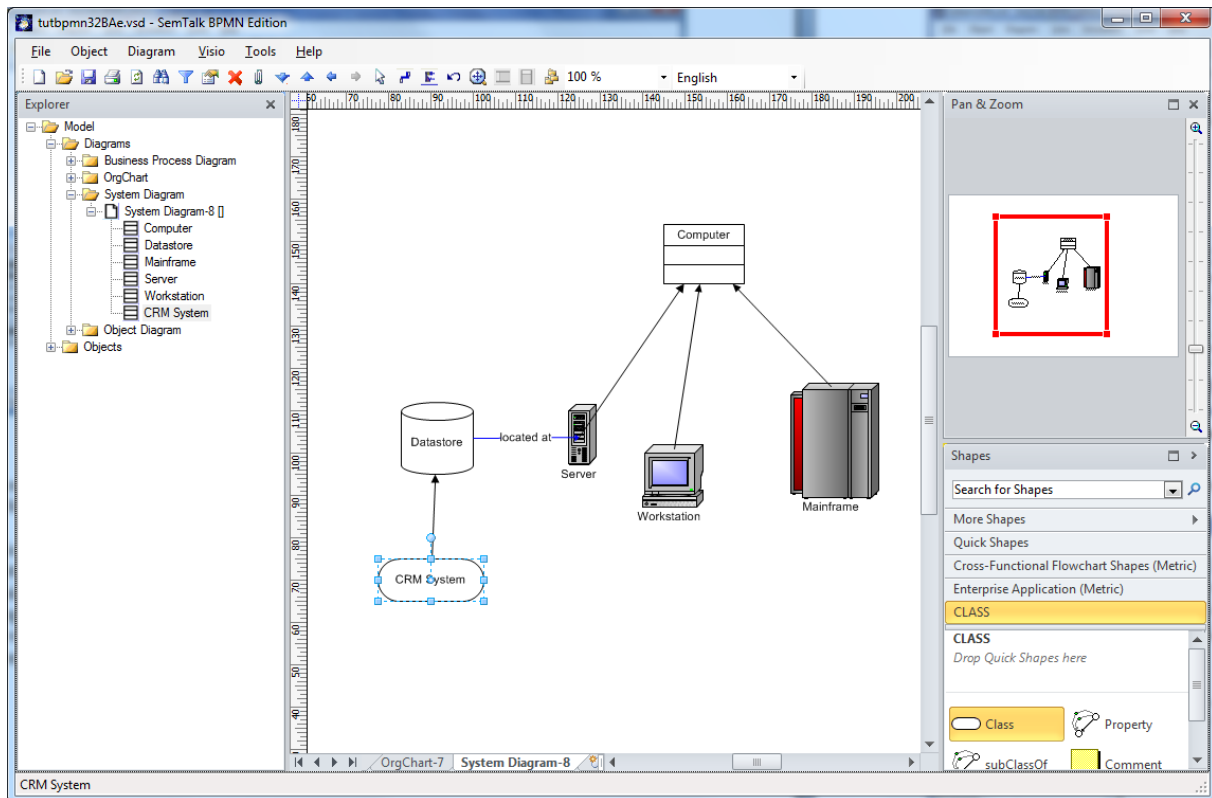


Figure 26: CRM System Class

Since CRM-System is a subclass of data store, SemTalk will use the data store shape for CRM-Systems.

Visio does not contain a specific master for CRM Systems, but we can easily create a new master shape in Visio or reuse another Visio master for our purpose. The document stencil (Visio-> View->Document Stencil) contains copies of the used Visio masters. Copy the component master to the document stencil. Using right click master properties on the master you can rename the master to a class name of your choice. Please make a copy of “Component” and rename it to “CRM-System”.

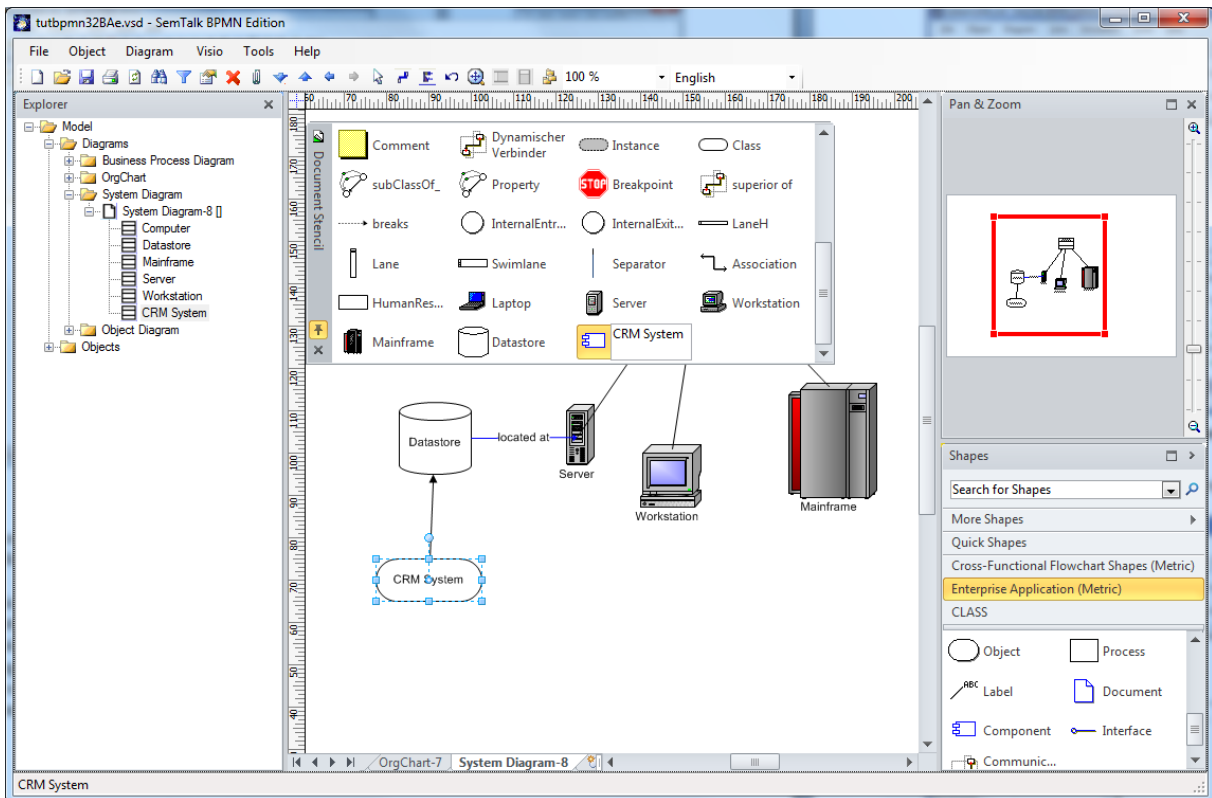


Figure 27: Shapes for resources in the Document Stencil

The CRM System master can now be used in the process model.

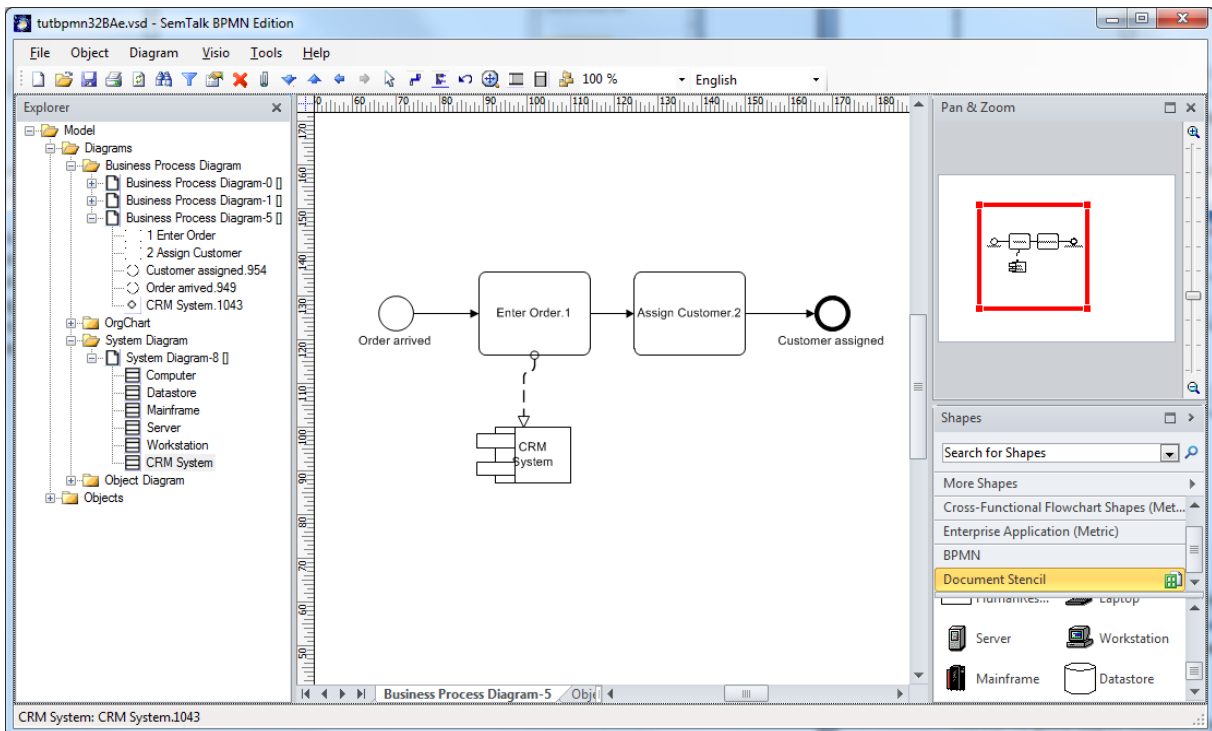


Figure 28: Renamed Visio Master

NOTE: A good object oriented model has the definition of attributes on a common super class rather than classes created from Visio masters.

If your new CRM does not have a text, you must customize the appearance of CRM Systems. Select “CRM System” in the Explorer and use Object->Customize.

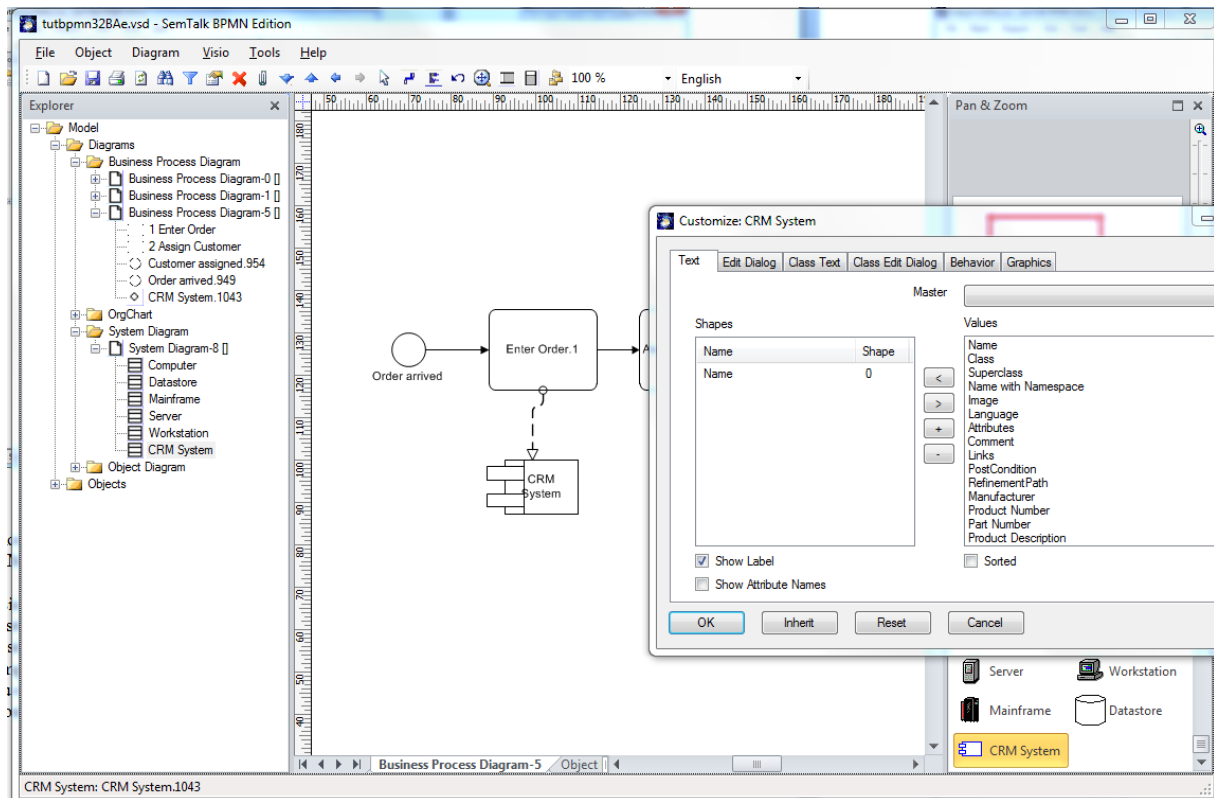


Figure 29: A System with a Visio Shape in a Process

6. Systems

Please add a system (e.g. a CRM-System or simply a “Service” in case you skipped to preceding chapter) to the process:

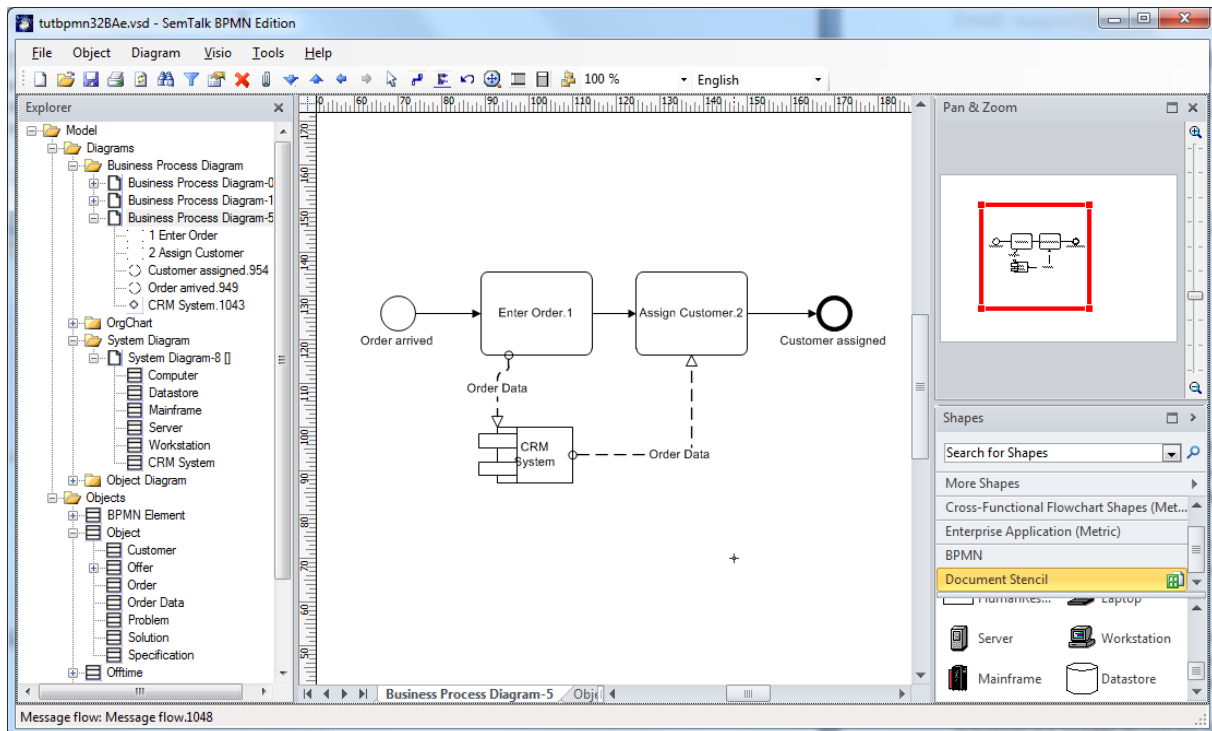


Figure 30: A System with a Visio Shape in a Process

Connect it to “Assign Customer” with a “Message flow” connector. These relations describe whether you store information to the system or whether you read information from the system.

NOTE: You may insert the same system more than once into a process using right-click insert and check “Show Existing”. You may not insert the same task call than once, but you can execute the same task multiple times.

A system is a storage device for information or in general for objects. Objects can be stored in a system and afterwards be read from that system. Typical systems are the inbox of a mail client or a database. A system has a dedicated type.

If you edit the system you can specify which type of information is stored in the system. The general tab is identical to other dialogs.

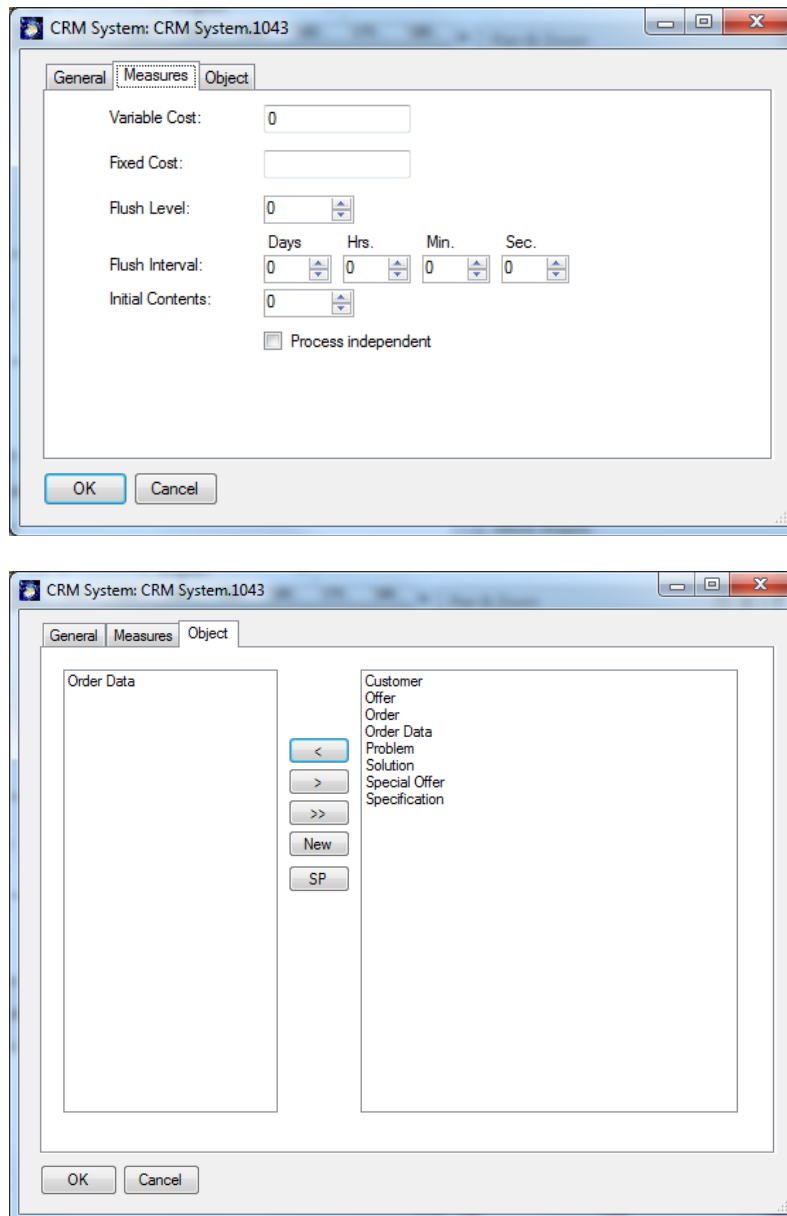


Figure 31: System: Measures

Fixed Cost is used to assign cost for each information object, which is stored in the system. Capacity limits the amount of information objects that can be stored in the system. Flush level and flush number are used to specify that the information is send through and outbound “Message flow” link if a certain amount or time is exceeded.

For the “Message flow” relation you can select the type of information which is accessed or stored.

Note: You can also edit the label of “Message flow” connectors directly to specify the information.

As an alternative presentation to the “Service” master or cutomized master su as “CRM System” you can use the “Lane” master shape and drop process elements onto this pool. This is the notation, which is recommend by the BPMN spec.

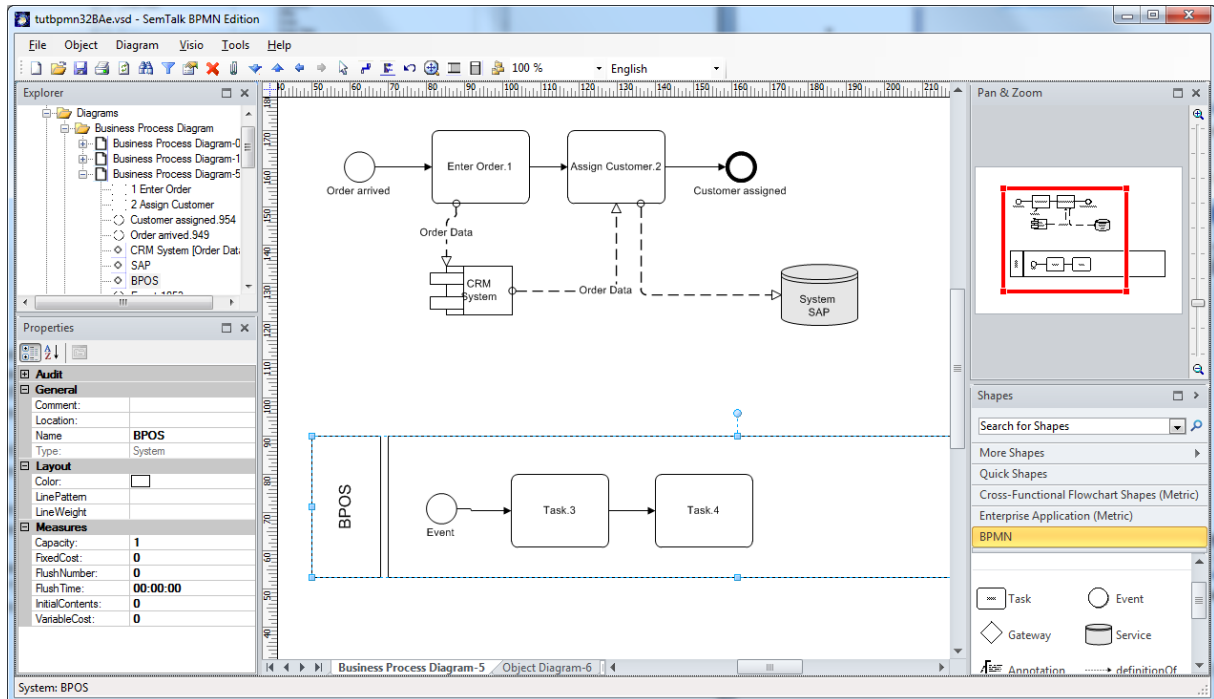


Figure 32: Lane and Service Masters

Lanes can be grouped by Pools, which are basically Swimlanes in SemTalk. There is a horizontal Lane Mastershape (“LaneH”) and a vertical Lane Mastershape (“Lane”)

7. Refinements (Sub-Process)

Note BPMN Methodology:

Breaking down a task into more detailed tasks is expressed in the BPMN with multiple shapes such as “Sub-Process”. In SemTalk a refinement is more dynamic: A (sub-) process for the detailed tasks can be attached to any task. For every inbound sequence flow link an (internal) entry point is added to the refined process. For outbound Sequence flows an (internal) exit point is added.

Right Click on “Assign Customer” and select “Refine”. A dialog pops up asking for the name of the sub process:

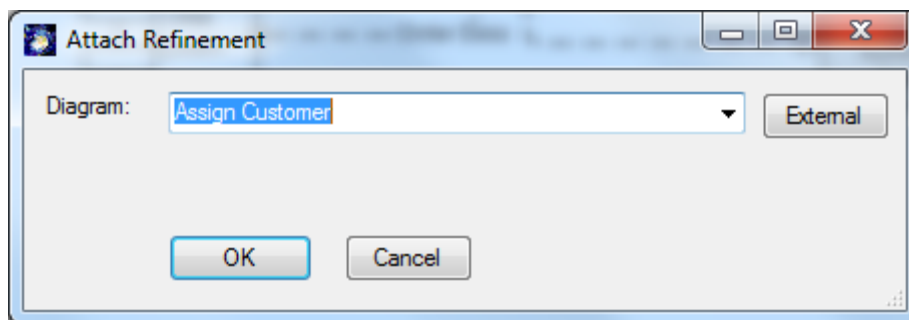


Figure 33: Creating a Refinement

A new empty process with entry and exit point is generated:

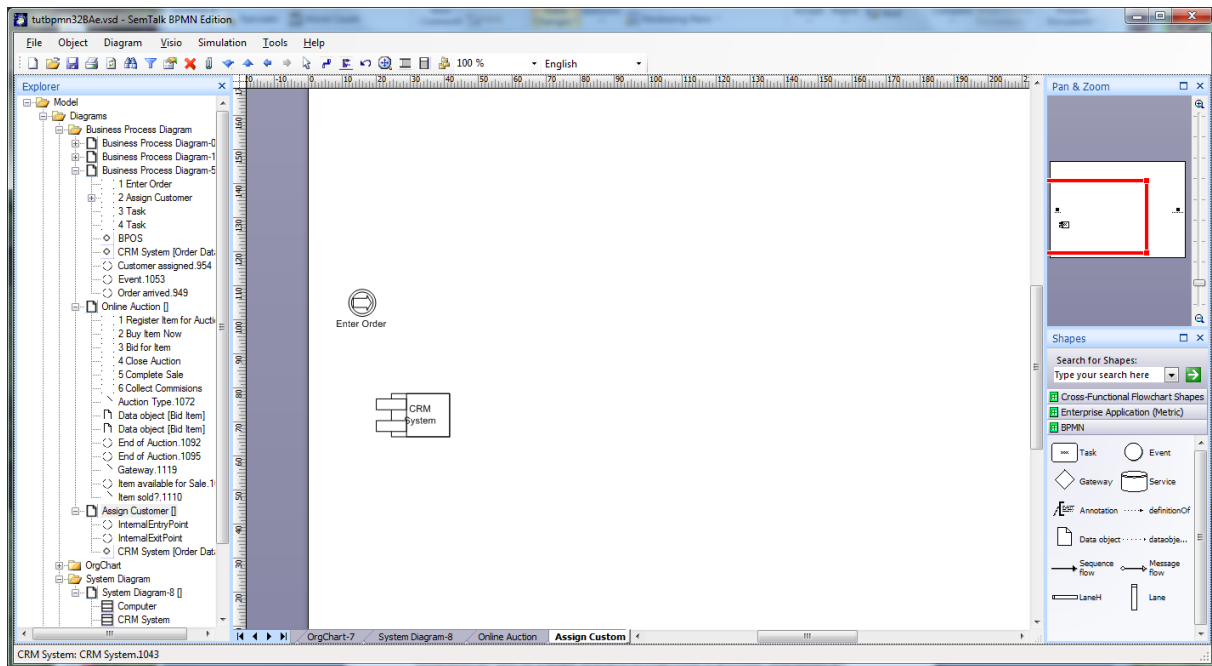


Figure 34: A new Refinement

You can see in the explorer the new process as a child node of “Business Process Diagram-5”. In Business Process Diagram-5” “Assign Customer” is now marked with as “+” to inform you that it has a refinement. Any time you select “Refine” you open the refinement. The menu “SemTalk->Diagram->Go Up” navigates from the refinement to the refined process.

Refinements may have incoming and outgoing message flows. The events for those flows will use the message symbol instead of the link symbol.

NOTE: If you use the option “External” you can assign process in a different model as the refinement. In this case the refinement works like a hyperlink to the other model. But you can not connect entry- and exit points.

7.1. Attachments and Visio-Hyperlinks

Refinements are used for a unique structured decomposition of processes. Attachments are used to assign unstructured information such as documents, hyperlinks or arbitrary Visio pages to an object. In order to add an attachment please use the edit dialog.

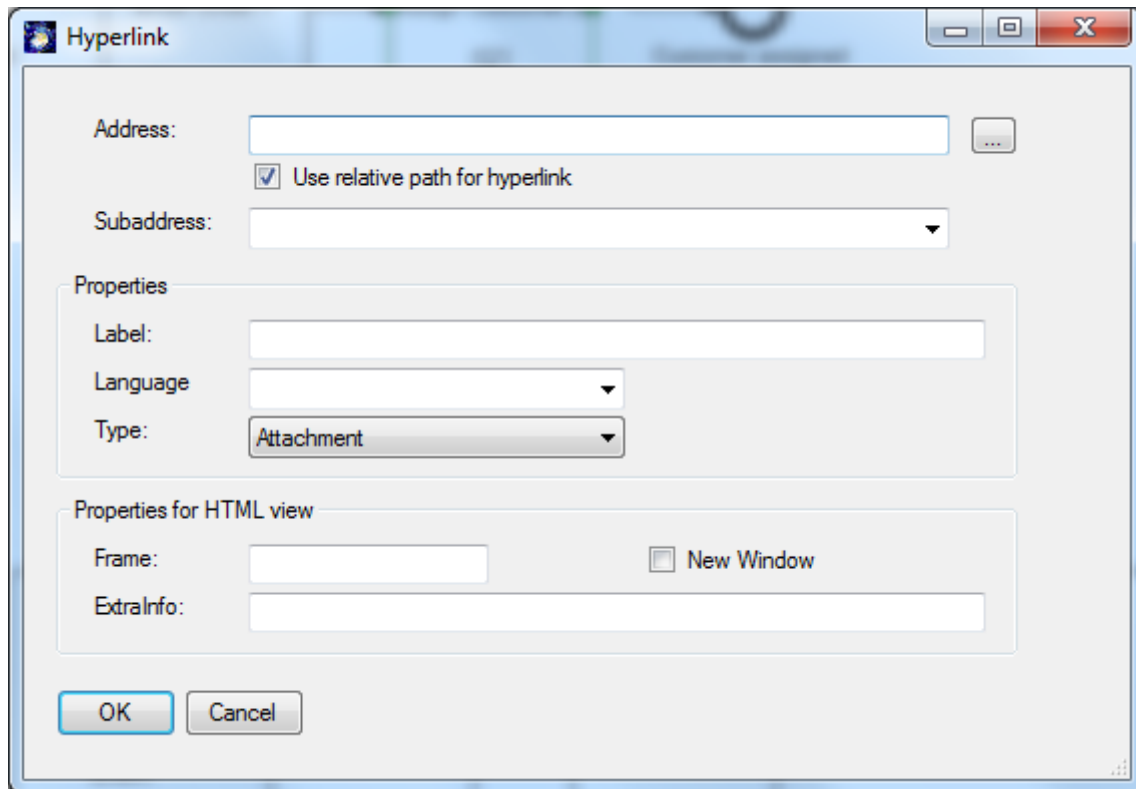


Figure 35: Editing Hyperlinks

Use **Sub address** to attach other Visio pages. **Address** will be used to attach documents or Hyperlinks. **Language** marks the document for a certain model language. If you select external documents you can decide to use a **relative path**.

You may attach as many documents as you need. Please visit the general tutorial for further information.

Navigation in the document and its HTML representation is realized via Visio-Hyperlinks:

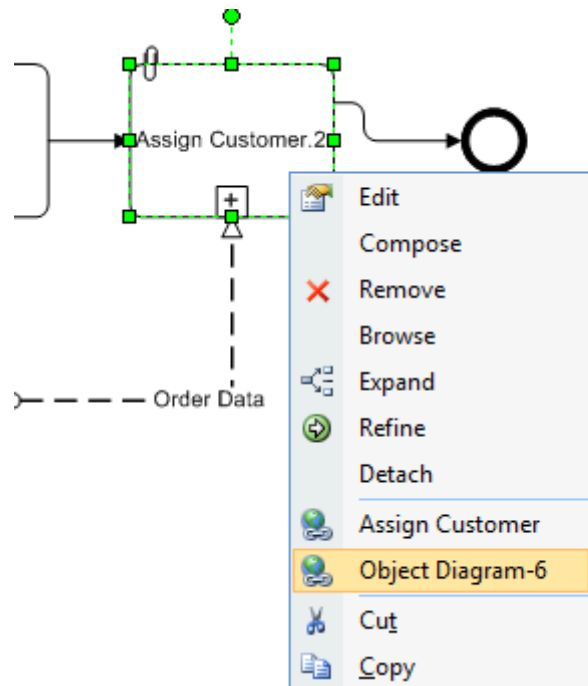


Figure 36: Navigation with Hyperlinks

On Visio shapes which are not SemTalk objects (e.g. Visio->Drawing->Rectangle) you can use standard Visio Hyperlinks.

8. Customizing Colors

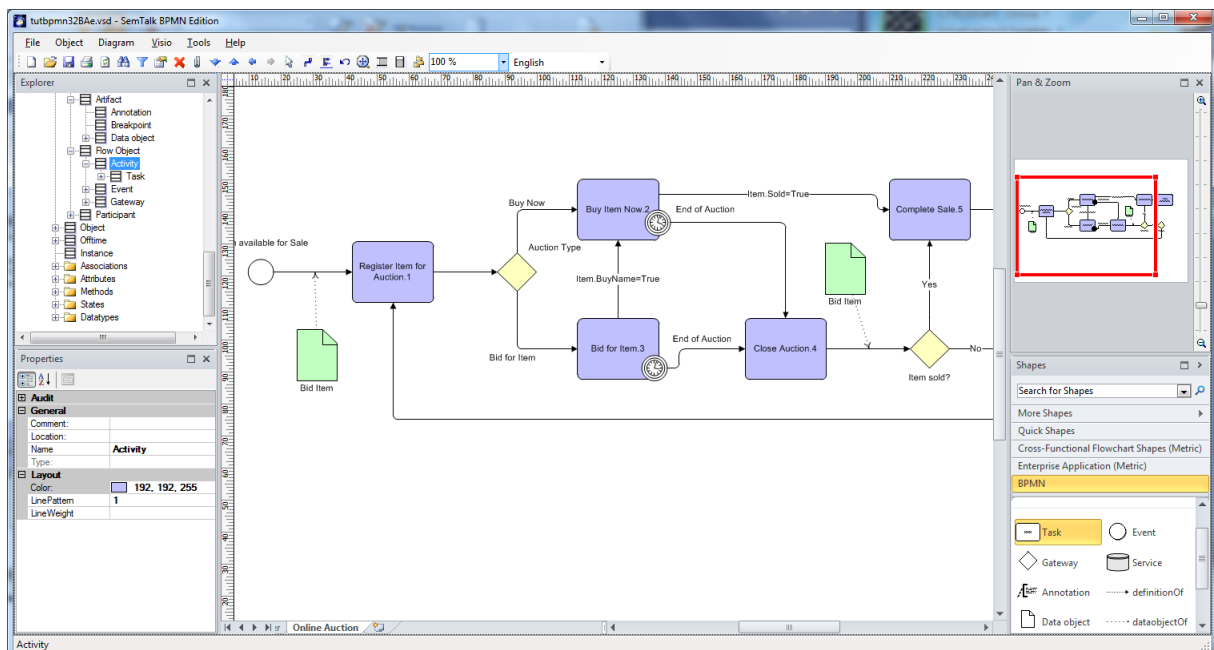


Figure 37: Colored Process

You have the option to change the color of shape for each type separately without touching the Visio Master shapes. Select Item Activity, Gateway or Data Object in the “Objects” part of the SemTalk Explorer and select a color of your choice.

9. Simulation

Simulation is available for SemTalk BPMN Edition. This allows testing the logical behavior of your process in order to find possible deadlocks.

Using colored Petri-Nets you can investigate your process in a dynamic environment with multiple inputs processed in parallel, in order to find out bottlenecks.

Please refer to our Simulation Tutorial for Details.

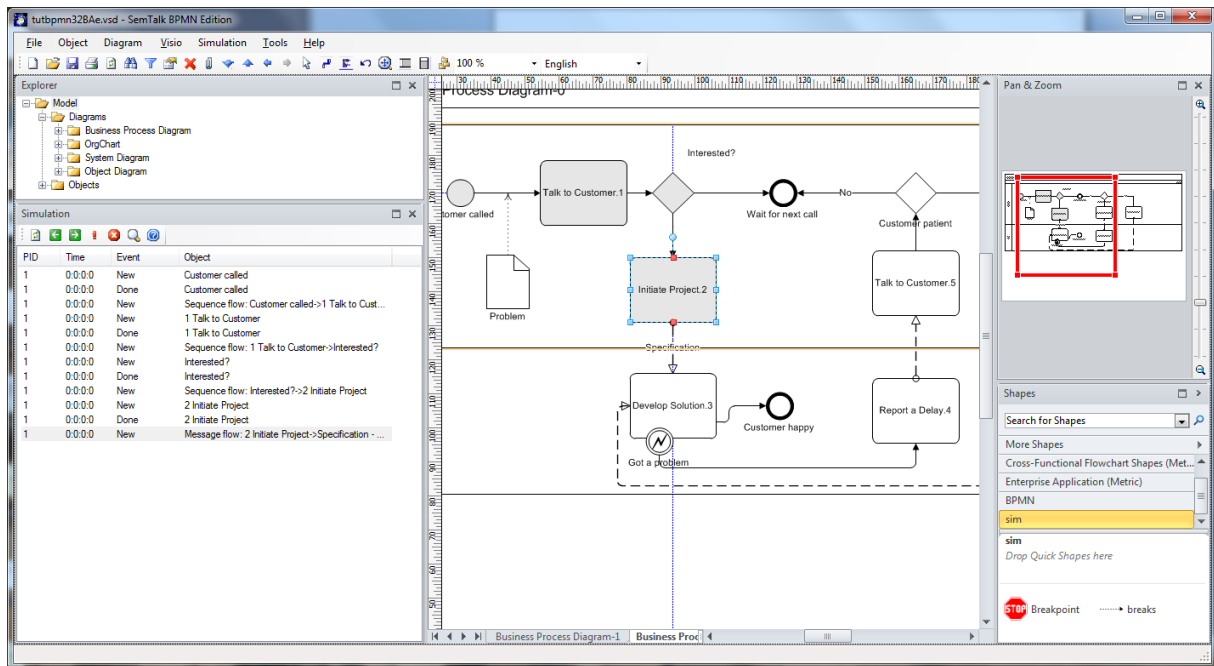


Figure 38: Simulation

10. Dialog View

Dialog View allows controlling one Visio document from another. Every time you select a process shape in the main Visio document a shape (or “Control”) in the other Visio Document will be selected. This is intended to be used for the specification of IT-Systems, Workflows or Portals. It might be used in conjunction with the stepping mode of simulation.

Dialog View can be opened from Tools->Dialog View->New/Open. The workspace will be split in two areas. You may create or modify user interfaces here. Any Visio document can be used. It does not have to be created with SemTalk.

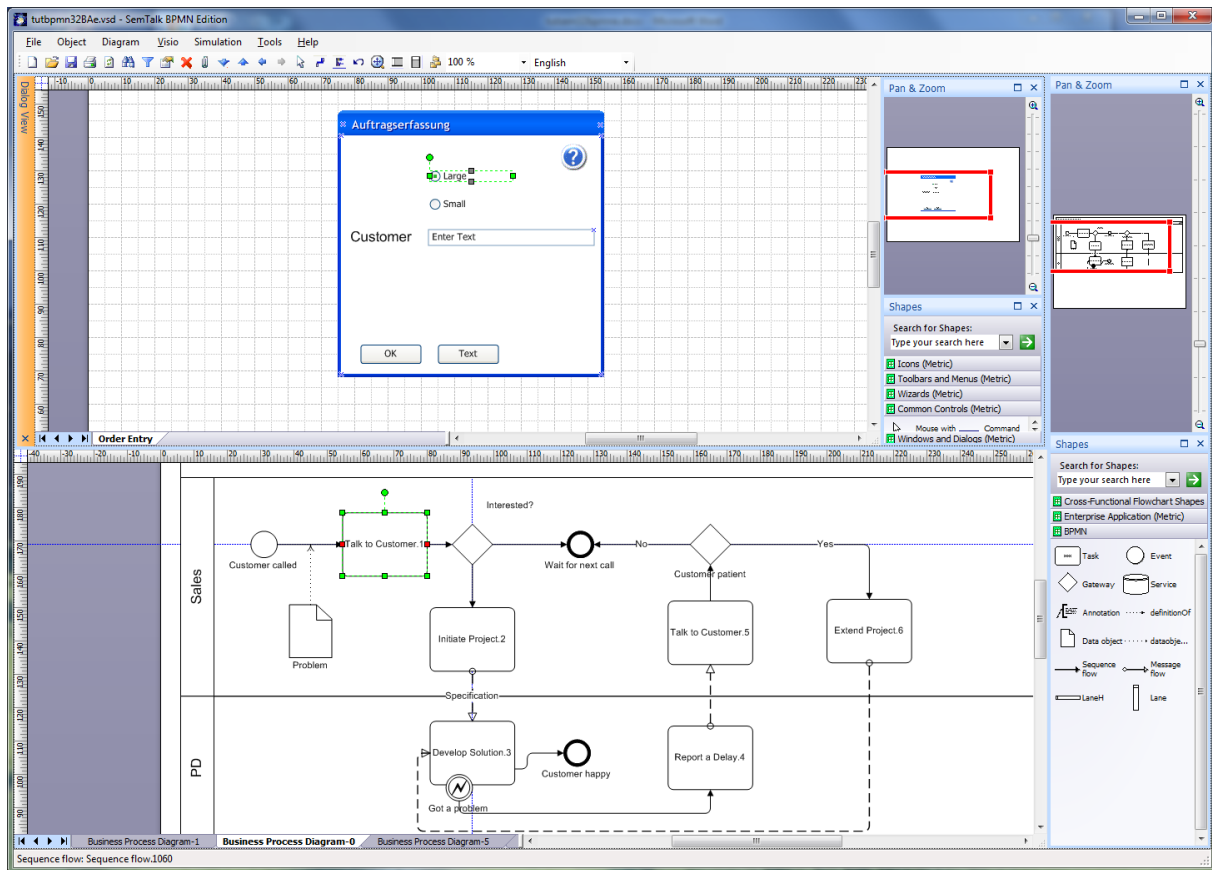


Figure 39: Dialog View

In order to connect a process element with a shape in the drawing please select both shapes and choose the option Tools->Dialog View->Capture. Each process element can only be assigned to one shape. Each time you select the process the shape will also be selected. This is actually what the Simulator does in Single-Step Mode.

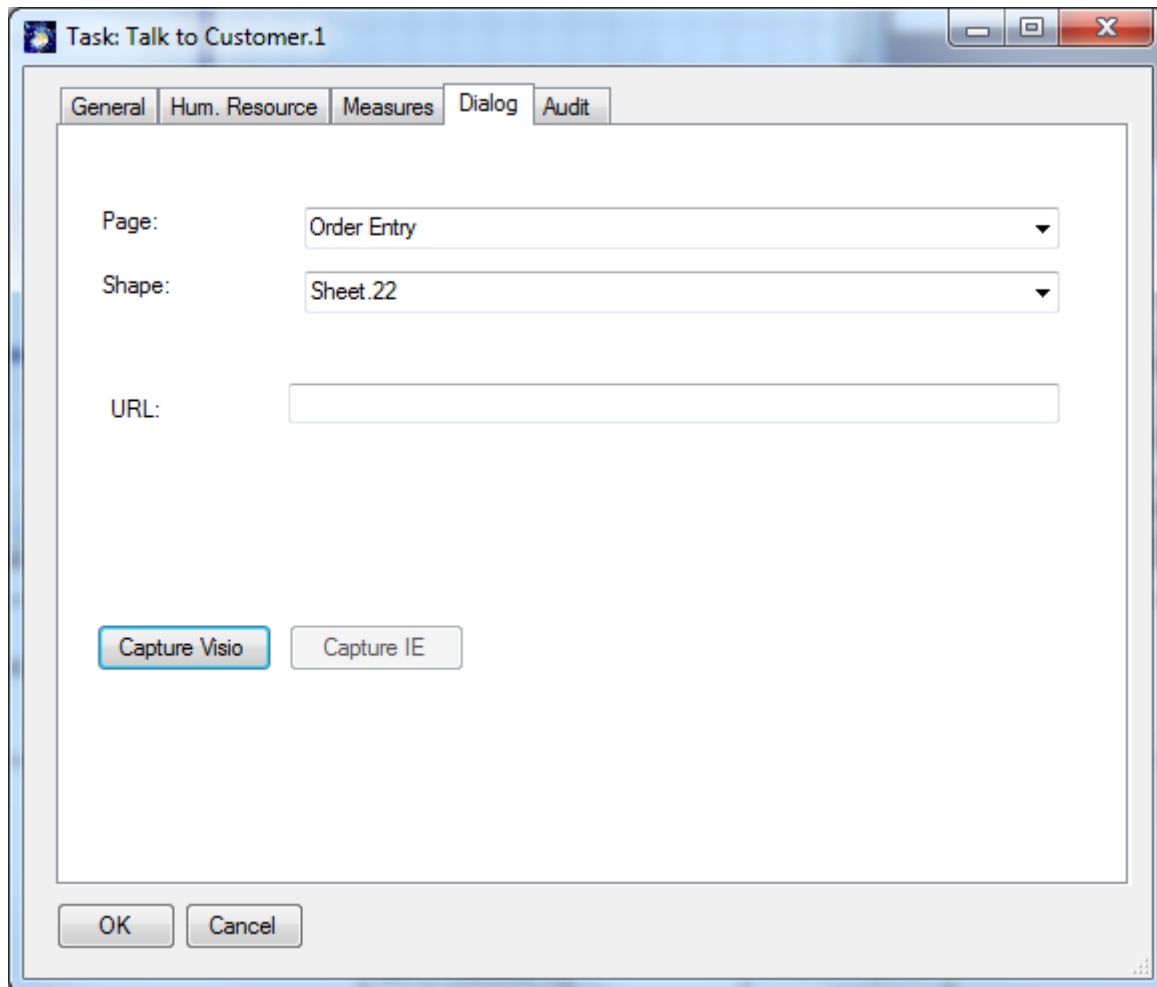


Abb. 1: Dialog Tab

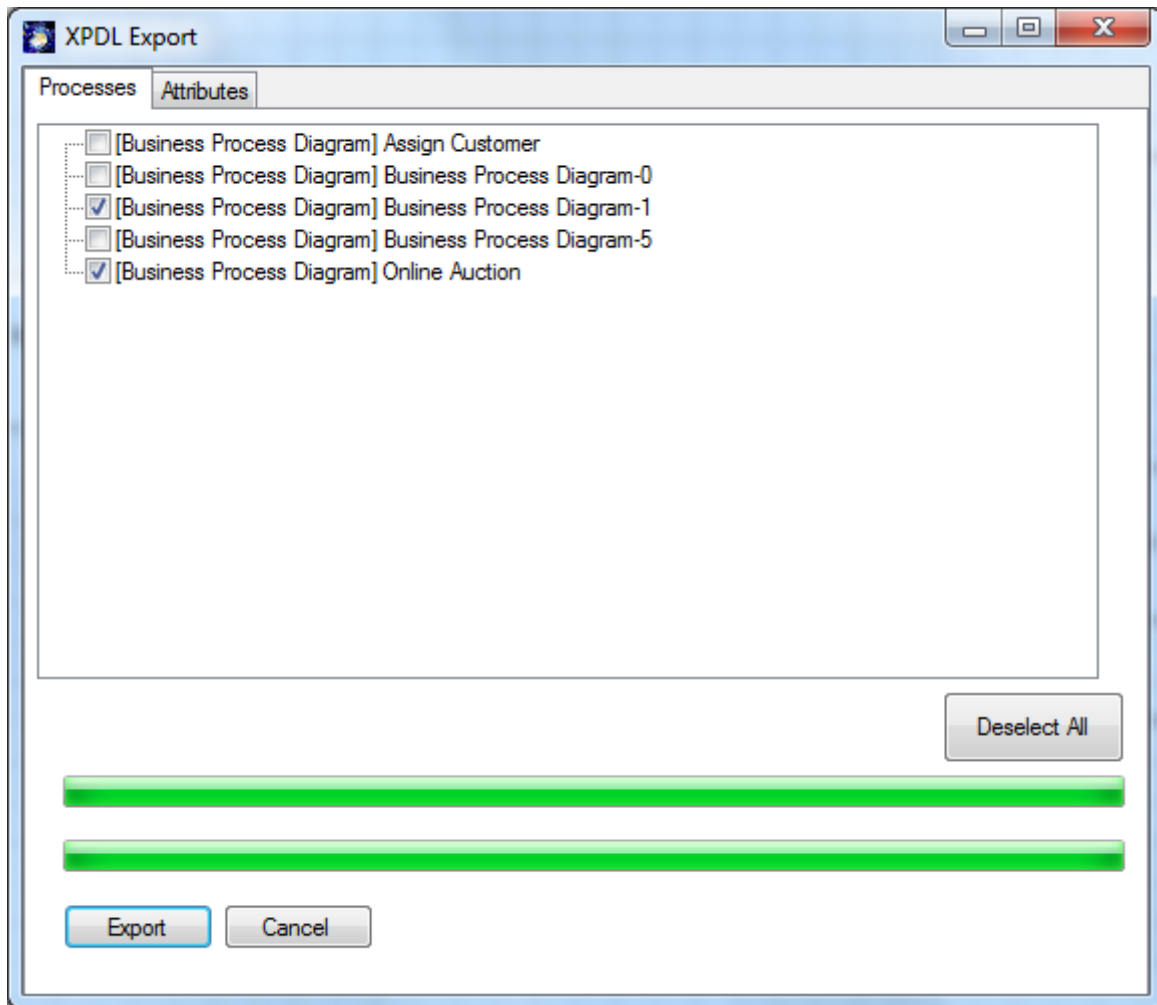
Using the dialog tab you can review and change your settings. Instead of connecting the Visio shapes, you may also connect the process element to hyperlinks. In order to do that you MUST open the browser via Tools->Dialog View->Browser.

SaveAs Webpage will retain the links to an HTML representation of the 2nd Visio document.

11. XPDL Export / Import

The XML Process Definition Language (XPDL) has its origin in the text-based workflow exchange format of the Workflow Management Coalition (WfMC Interface 1)

- Allow tools to exchange process models
- Format to exchange Process Definitions between
 - Components within Workflow/BPM Products
 - Different BPM/Workflow Products
 - Process Modelling/ Simulation tools and BPM/Workflow Products



In SemTalk you'll find XPD Export at File->Export/Import->WfMC XPD Export.

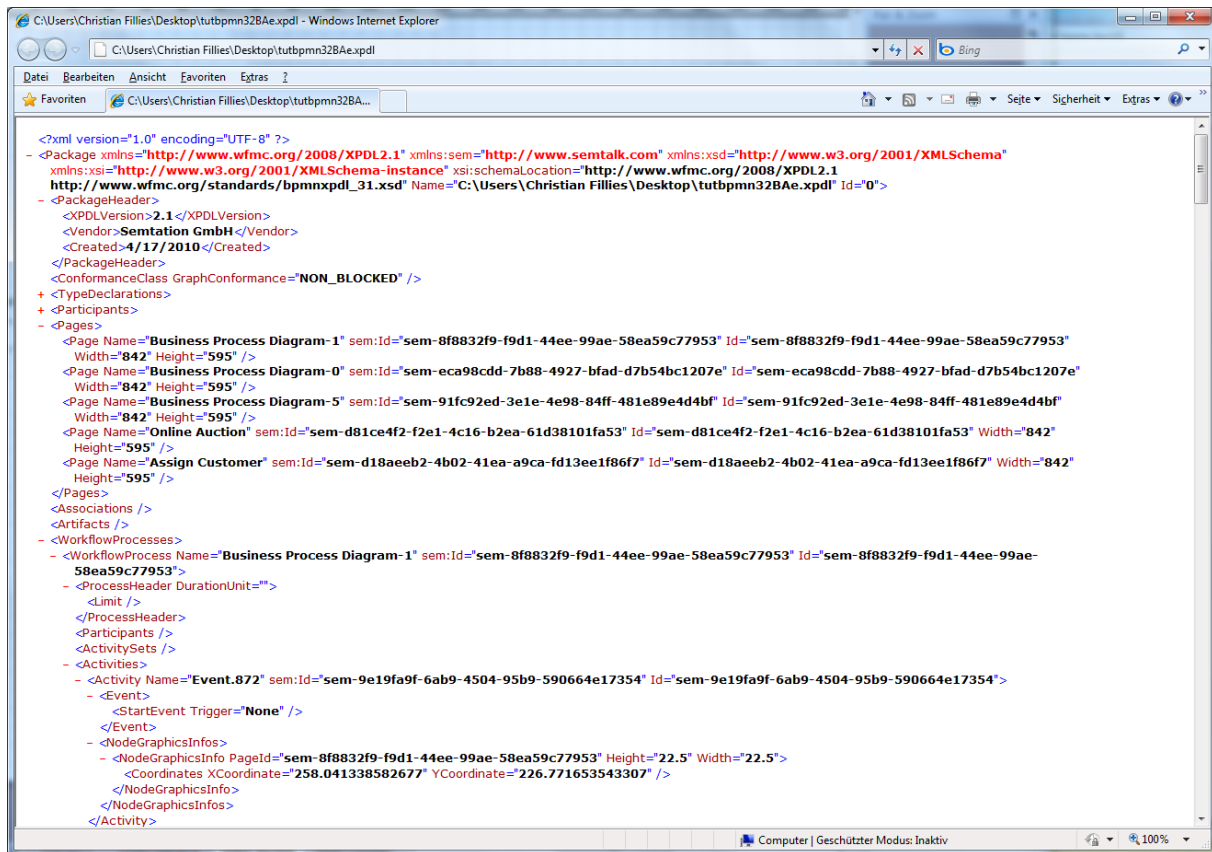


Figure 40: XPD Export

12. Importing from SAP⁵

12.1. Import data from SAP Solution Composer

The SAP import interface can be opened via File->Export/Import->SAP Explorer. It consists of the parts:

- SAP Solution Composer
- SAP Enterprise Service Repository
- SAP Solution Manager

Content from SAP Solution Composer covers reference processes for a broad range of SAP solutions. It can be used in SemTalk Process Modelling Editions and Visio after installing SAP Solution Composer locally on your machine:

(<http://www.sap.com/solutions/businessmaps/composer/index.epx>)

Content from Enterprise Service Repository is only available via the Internet. It contains a set of services and service descriptions which are useful to SOA oriented process models.

Content from Solutions Manager describes your current SAP implementation. If you save a business blueprint from SAP solution manager, you may use its content from within SemTalk.

All these entry points into the SAP world are presented jointly in SemTalk's SAP Explorer. Use Drag&Drop or check parts of the objects shown in the SAP Explorer and import them

⁵ R/3 and AcceleratedSAP are registered trademarks of SAP AG

into process models. Beyond process steps you will find information about SAP Systems, Business objects, transactions and organisational units.

In order to get the SAP Look & Feel it is recommended to use the template „cview.vst“, which has the right colors and shapes. Supported diagram types are Component View and Collaborative Business Map.

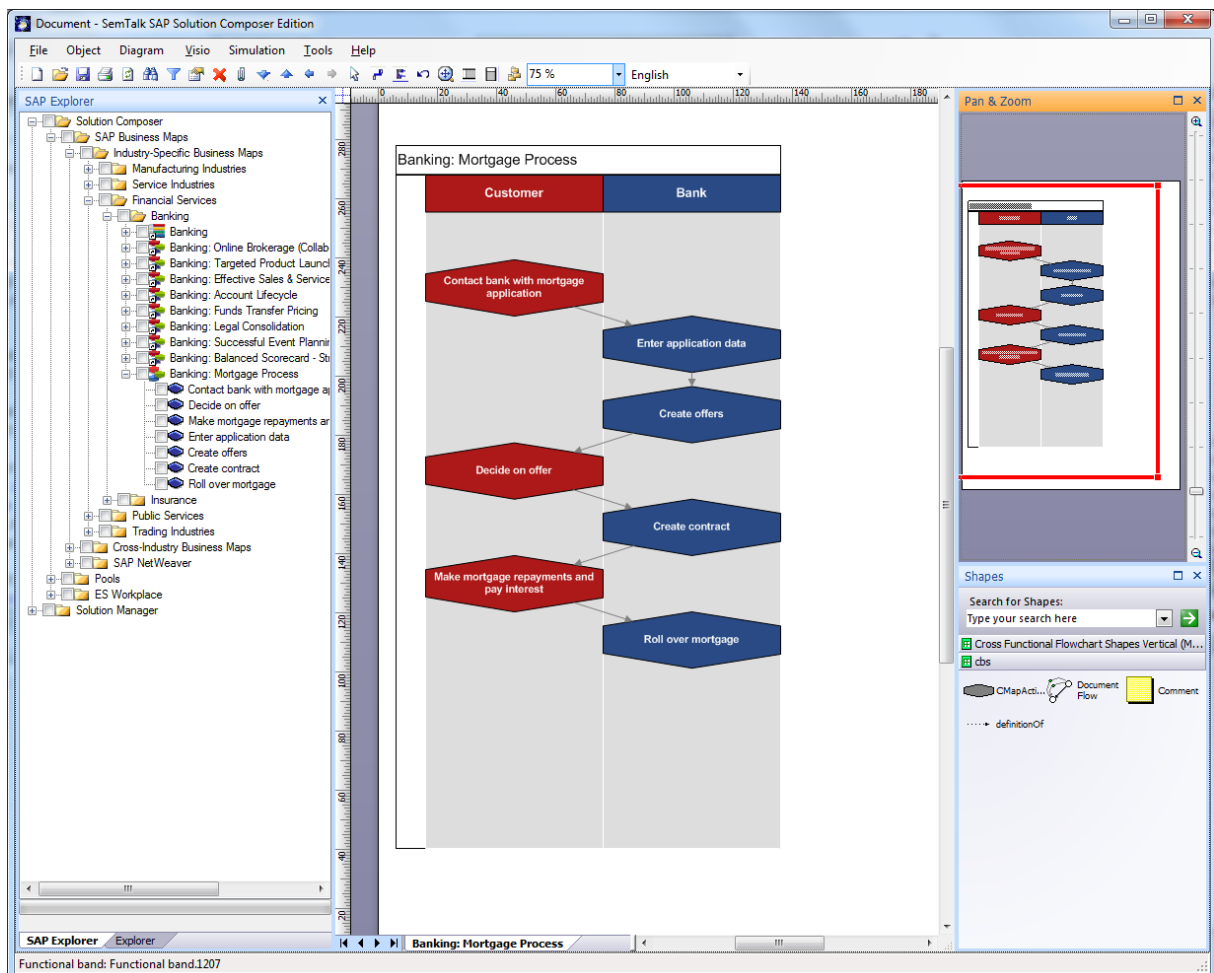


Figure 41: SAP Solution Composer (1)

Imported into BPMN, the same process looks like this:

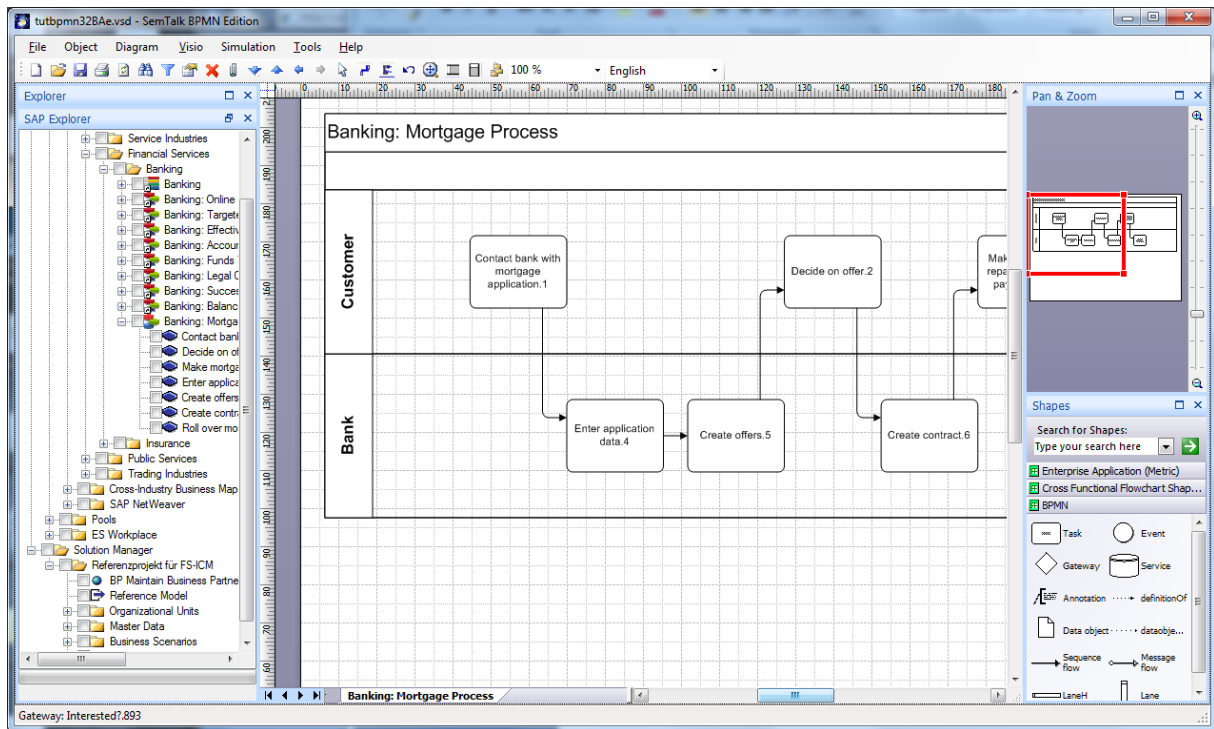


Figure 42: SAP Solution Composer (2)

Via simple Drag & Drop you may also add variants and web service definitions of the Enterprise Service Repository (needs Internet Access) and from a SAP Solution Manager Blueprint.

If you have installed the Solution Composer not in the default place or if you would like to use Solution Manager, you should update your SAP setting at Options->SAP:

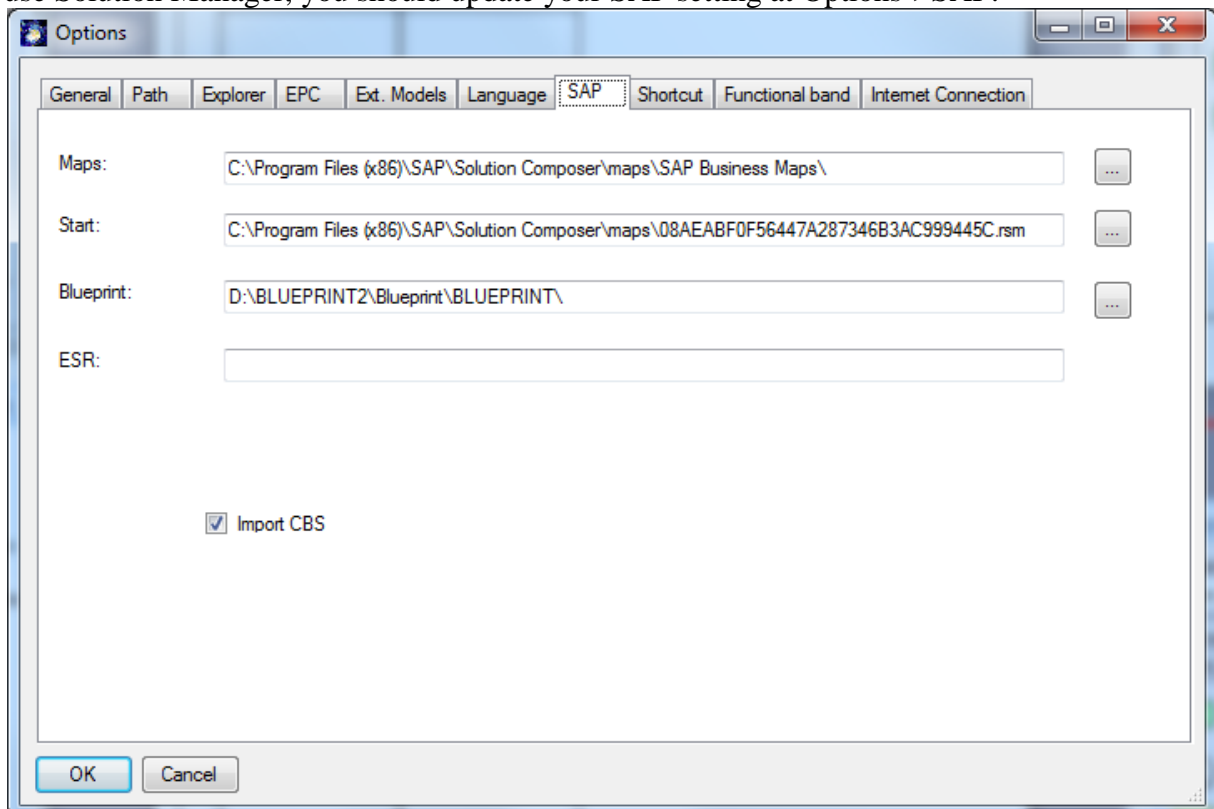


Figure 43: SAP Import Options

13. Figures

Figure 1: SemTalk Welcome Screen.....	4
Figure 2: Starting SemTalk BPMN Edition.....	5
Figure 3: BPMN Modes.....	6
Figure 4: Adding Process Elements	10
Figure 5: Process with Swimlanes	12
Figure 6: Process with Swimlanes and data objects.....	13
Figure 7: Attaching an Event	13
Figure 8: Intermediate Event and Error handling	14
Figure 9: Composing object oriented tasks.....	14
Figure 10: An object-oriented Process	16
Figure 11: Object Diagram	16
Figure 12: Properties Window	17
Figure 13: Task Dialog	18
Figure 14: Task: Hum. Resource.....	19
Figure 16: Task: Measures.....	21
Figure 17: Sequence Flow: Measures.....	23
Figure 18: Visio: Snap& Glue Options	23
Figure 19: Org Chart	24
Figure 20: Org Chart	25
Figure 21: Adding Persons	25
Figure 22: Org Chart with Persons.....	26
Figure 24: Classes of Systems	28
Figure 25: Attributes imported from Visio Masters.....	29
Figure 26: CRM System Class.....	30
Figure 27: Shapes for resources in the Document Stencil.....	31
Figure 28: Renamed Visio Master	31
Figure 29: A System with a Visio Shape in a Process	32
Figure 30: A System with a Visio Shape in a Process	33
Figure 30: System: Measures.....	34
Figure 32: Lane and Service Masters	35
Figure 31: Creating a Refinement	35
Figure 32: A new Refinement.....	36
Figure 33: Editing Hyperlinks.....	37
Figure 35: Colored Process.....	38
Figure 36: Simulation	39
Figure 37: Dialog View	40
Figure 38: XPDL Export	43
Figure 41: SAP Solution Composer (1).....	44
Figure 42: SAP Solution Composer (2).....	45
Figure 43: SAP Import Options	45