

Advanced Product Quality Planning (AQ9)

BPA Delivery 8 for V5R20SP1 (V5.8)

Implementation Guide



Modification Tracking

Version	Date	Done by	Modification
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D8W8.1	22 Feb 2010	ETP	Modified Images for D8

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Chapter 1: Introduction

The purpose of this document is to help the reader understand how to use the Demo DB and implement the existing Database in the SmarTeam BPA Advanced Product Quality Planning (AQ9).

1. What is APQP?

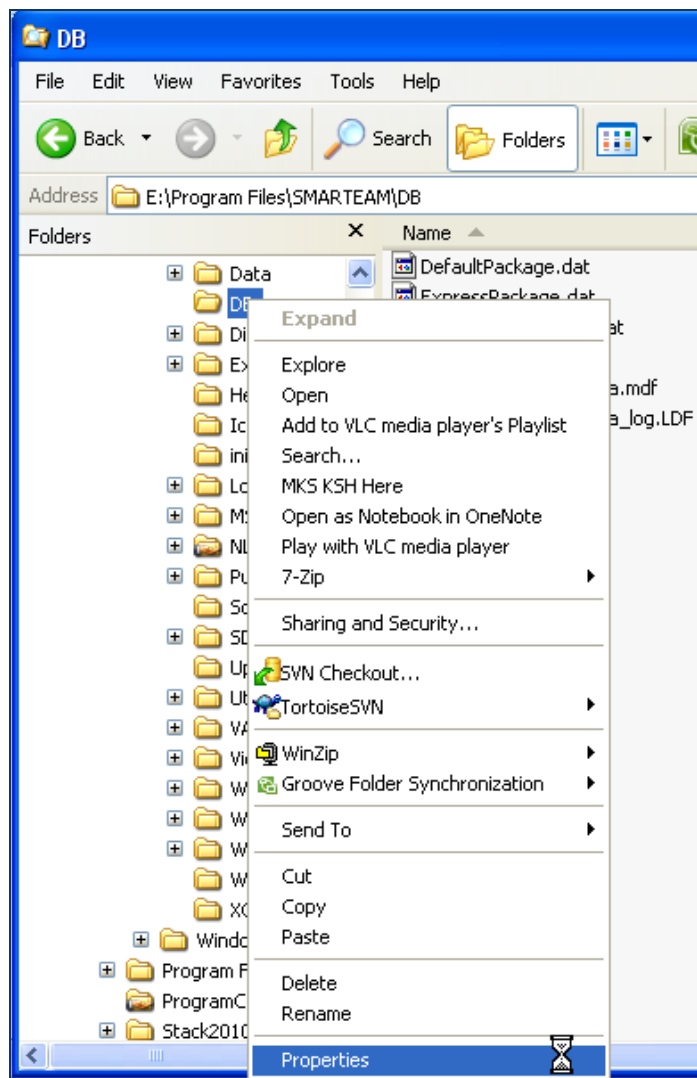
Advanced Product Quality Planning (or APQP) is a framework of procedures and techniques used to develop products in industry, particularly the automotive industry

Chapter 2: Usage of Demo database

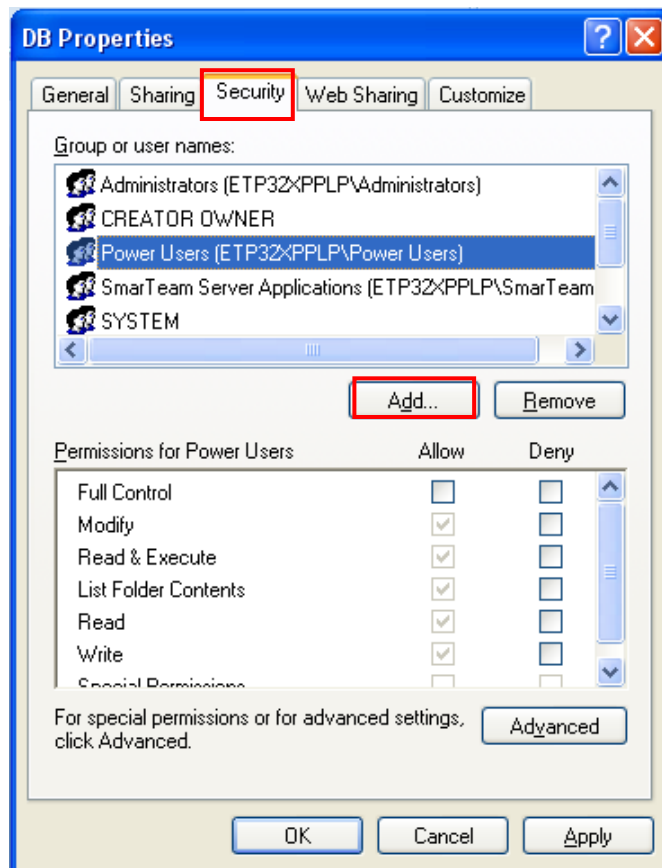
If you want to run APQP application with the Demo database which is provided in the setup, you need to attach Demo DB.

Attach the demo database installed in the DB directory of your installation directory. Use Database connection Manager Tool to make the attachment.

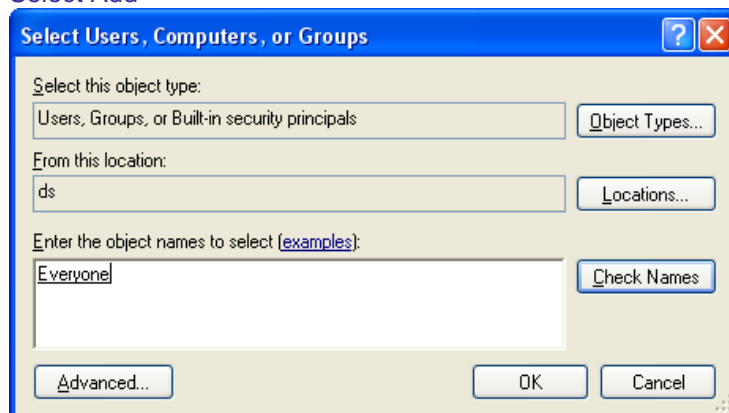
a. Attach Demo Database



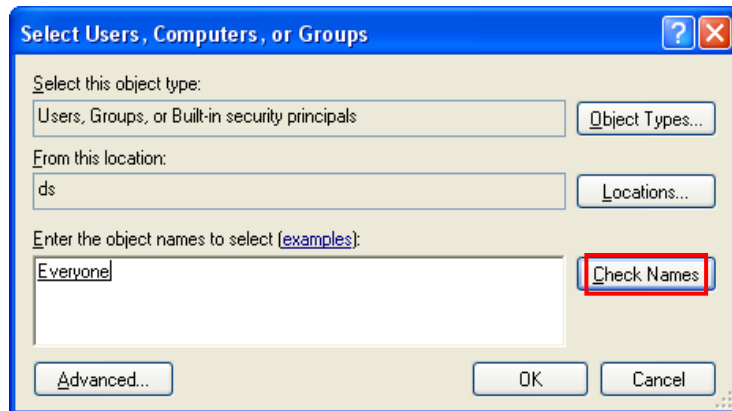
Select Properties



Select Add

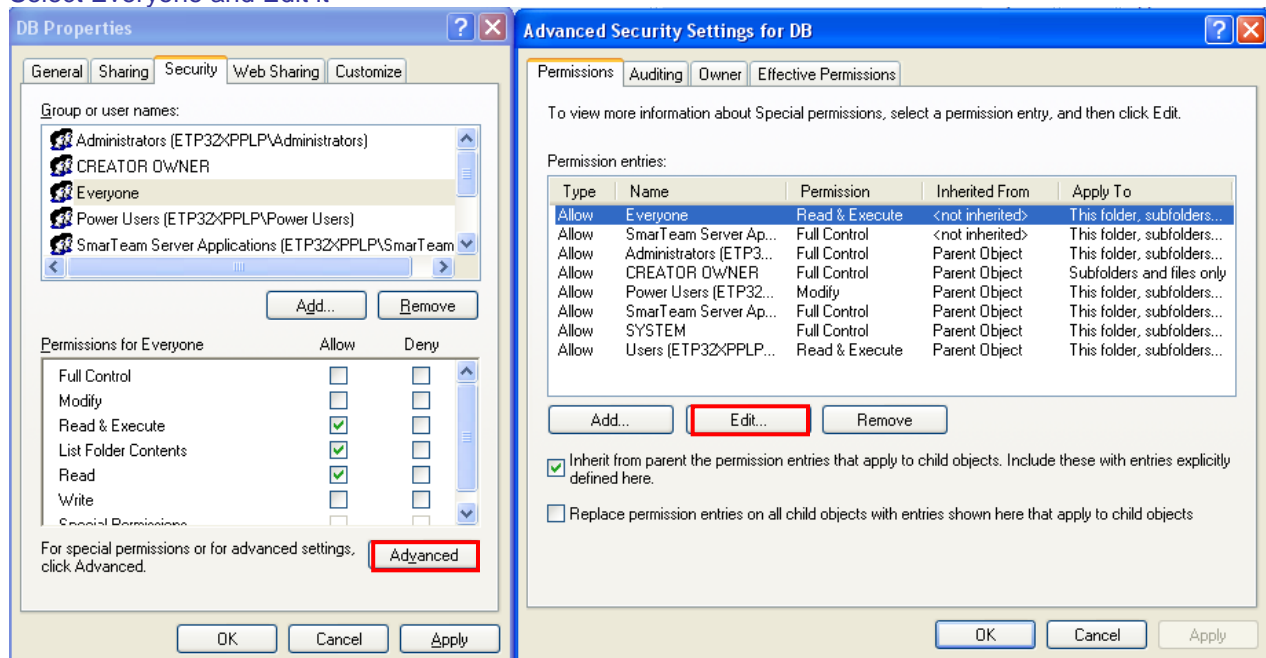


Enter everyone and click on Check Names button

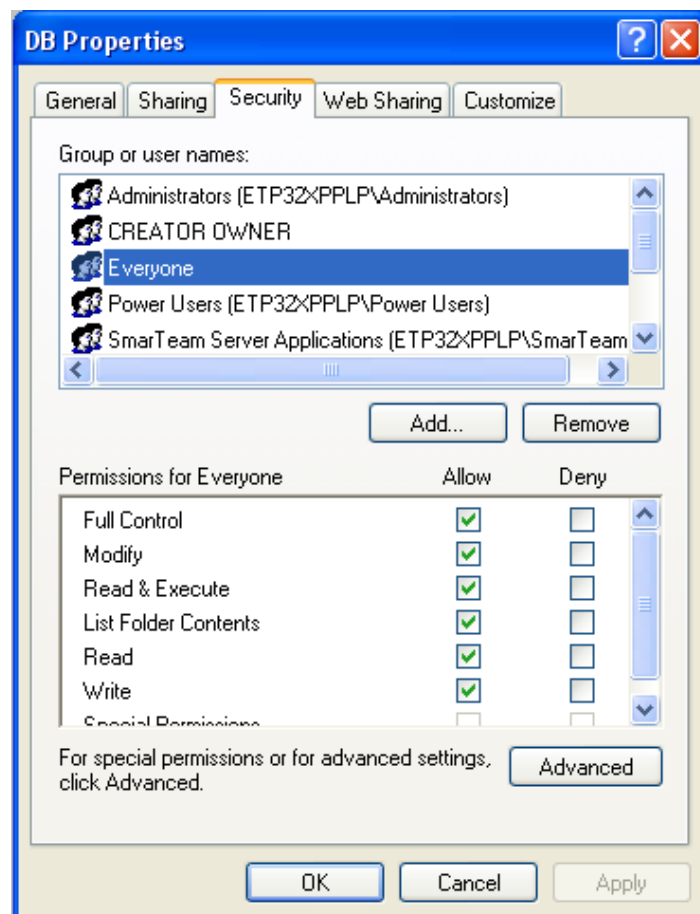
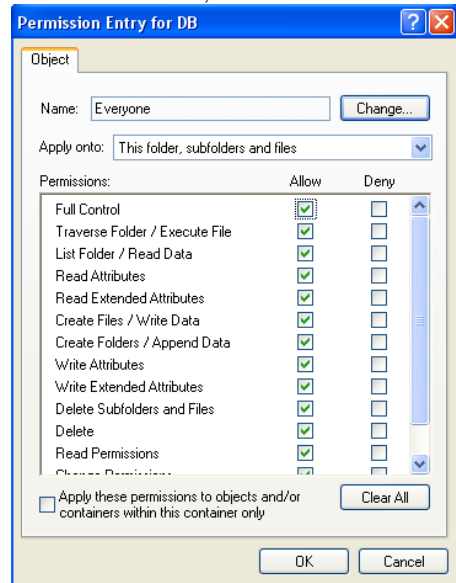


Click on OK button

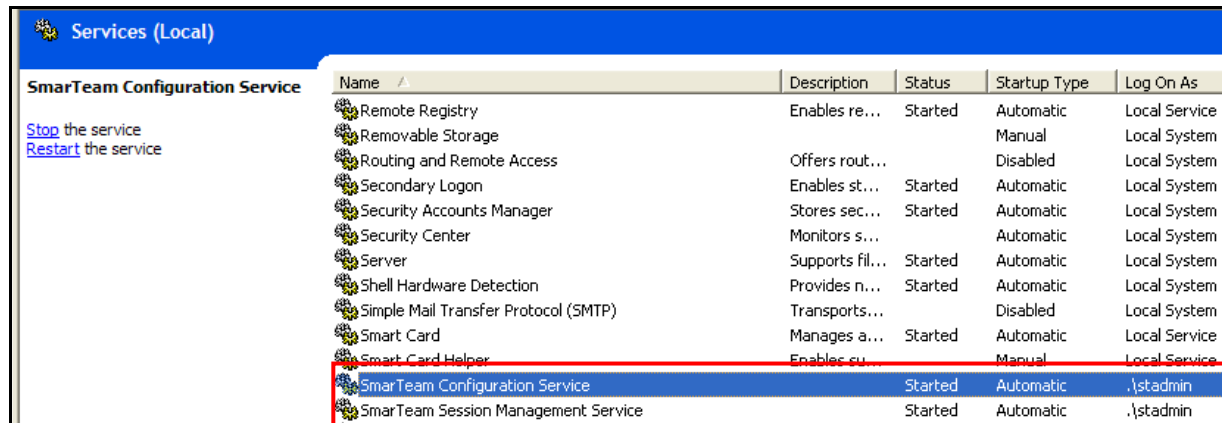
Select Everyone and Edit it



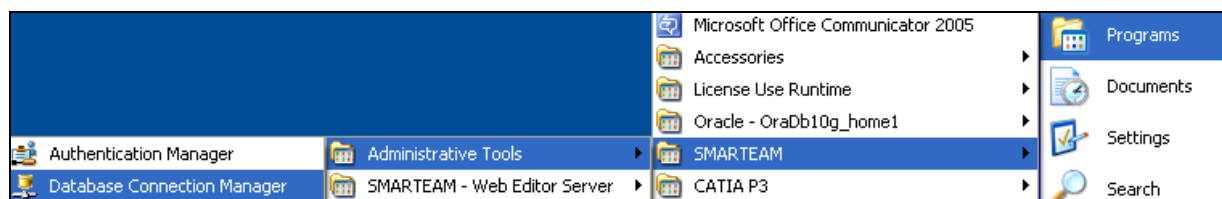
Allow full control, Click on OK.



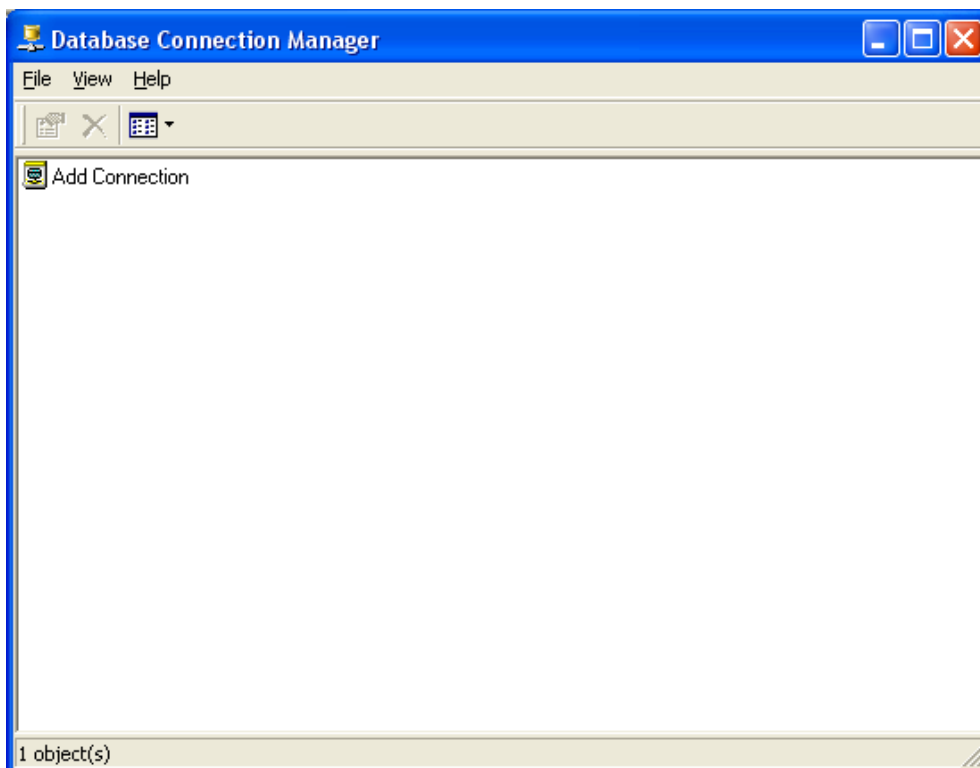
Click on OK



Restart two services : SmarTeam Configuration Service & SmarTeam Session Management Service



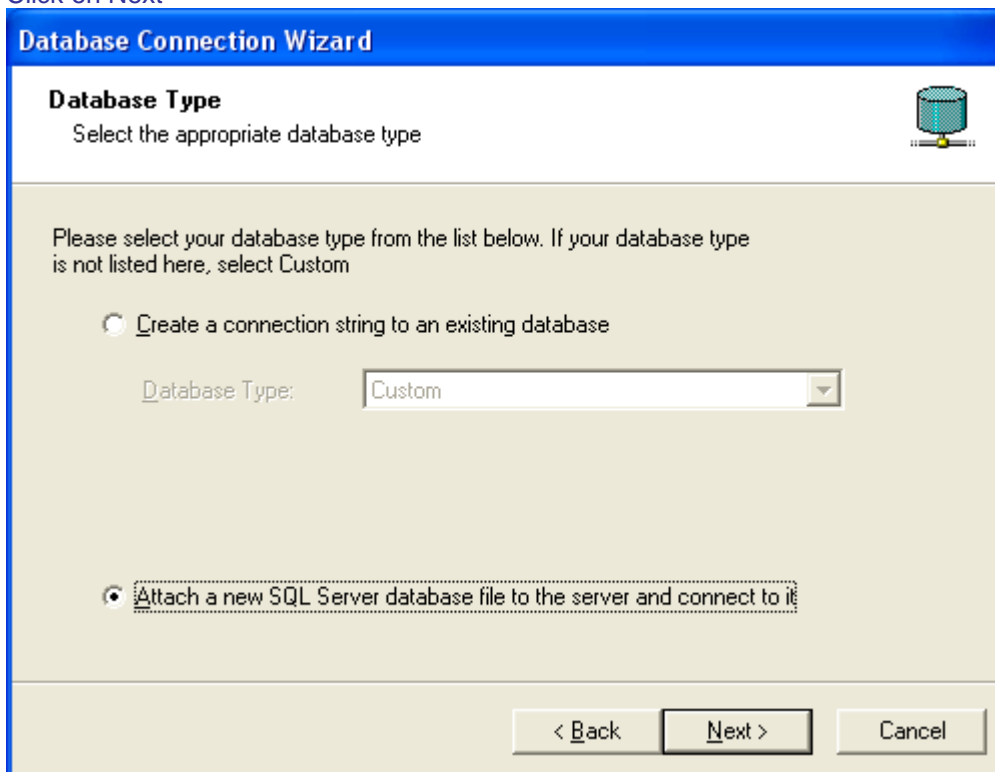
Launch Database Connection Manager



Double click on Add Connection



Click on Next



Select Attach a new SQL Server database file, click on Next

Database Connection Wizard

Database Server
Select the destination database server

Select the server where the new database will reside and enter the database administrator login name and password

Server Name:

☐ Windows Authentication

☒ SQL Server Authentication

Login Name:

Password:

Select SQL Server Authentication, enter Login Name and Password, Click on Next

Database Connection Wizard

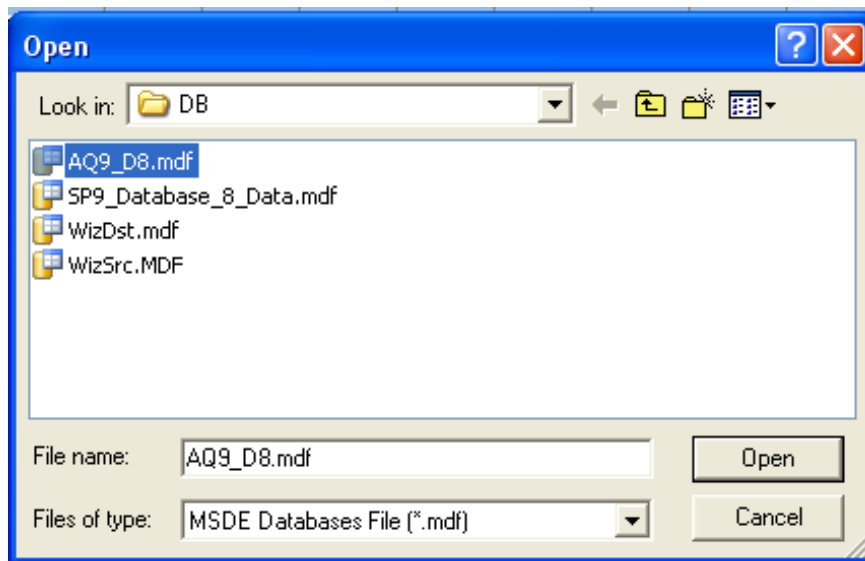
New Database Details
Enter database file and database name

Select the MDF file you want to attach and enter a name for the newly created database

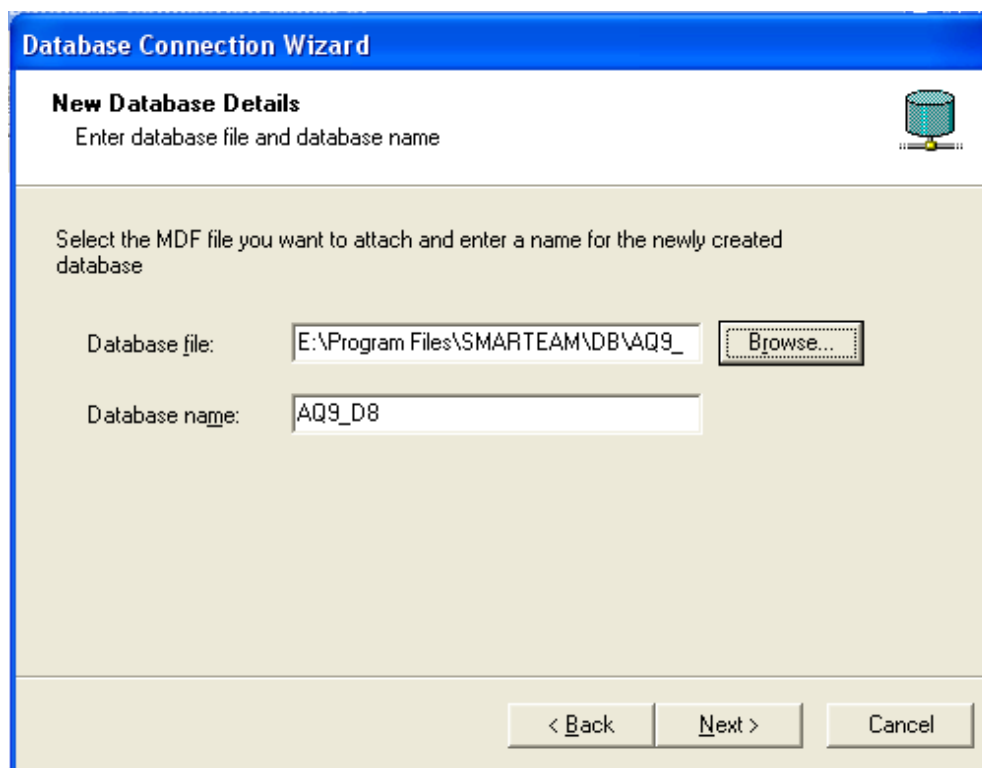
Database file:

Database name:

Click on Browse



Select DB



Click on Next


Database Connection Wizard

New Database Details
Enter database file and database name

Select the MDF file you want to attach and enter a name for the newly created database

Database file:

Database name:

 The database file was successfully attached to the server. Click Next to continue.

< Back Cancel

Click on Next

Database Connection Wizard

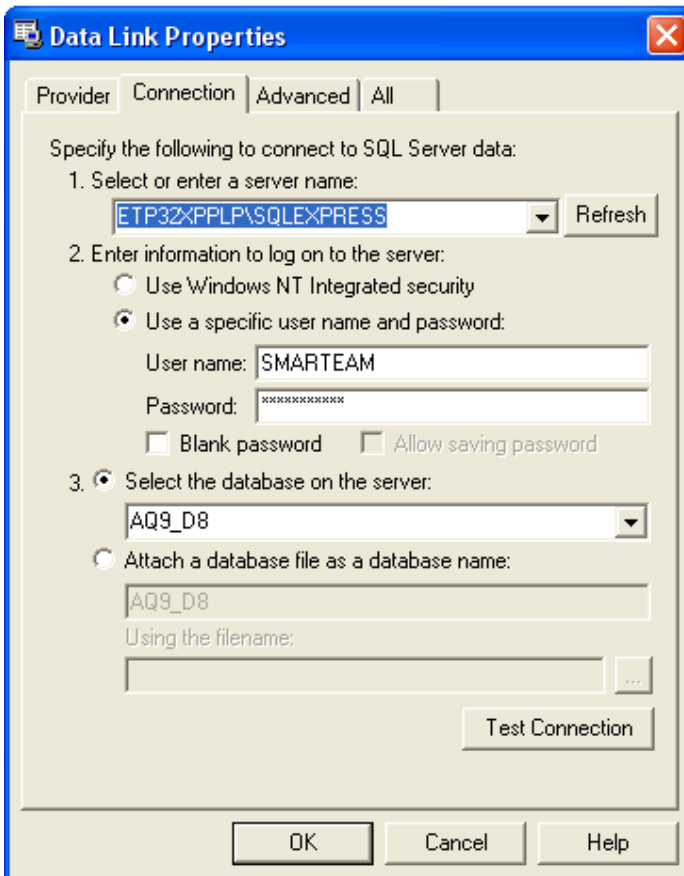
Database Connection String
Enter the connection details

A connection string contains the information required to connect to a specific database.
Enter the connection string or click Build to have the connection string built for you.

Connection String:

< Back Cancel

Click on Build



Data Link Properties

Provider | **Connection** | Advanced | All

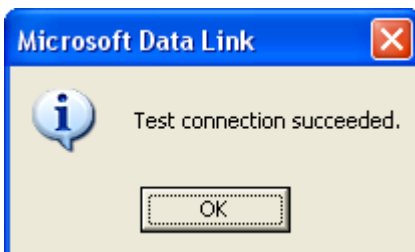
Specify the following to connect to SQL Server data:

1. Select or enter a server name:
 Refresh
2. Enter information to log on to the server:
 - ☐ Use Windows NT Integrated security
 - ☒ Use a specific user name and password:
 - User name:
 - Password:
 - ☐ Blank password ☐ Allow saving password
3. ☒ Select the database on the server:
 -
- ☐ Attach a database file as a database name:
 -
 - Using the filename: ...

Test Connection

OK Cancel Help

Click on Test Connection



Microsoft Data Link

 Test connection succeeded.


OK

Click on OK

Database Connection Wizard

Database Password Setting

Select the password encryption setting



Select the check box to save database password with strong encryption. See the documentation for more information on this setting.

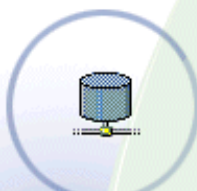
☒ Save database password using strong encryption

< Back Next > Cancel

Click on Next

Database Connection Wizard

Completing the Add Connection Wizard



You have successfully completed the Add Connection Wizard

You have specified the following settings:

Name: AQ9 Drop 8

Connection: Provider=SQLOLEDB.1;Persist Security Inf

User: SMARTEAM

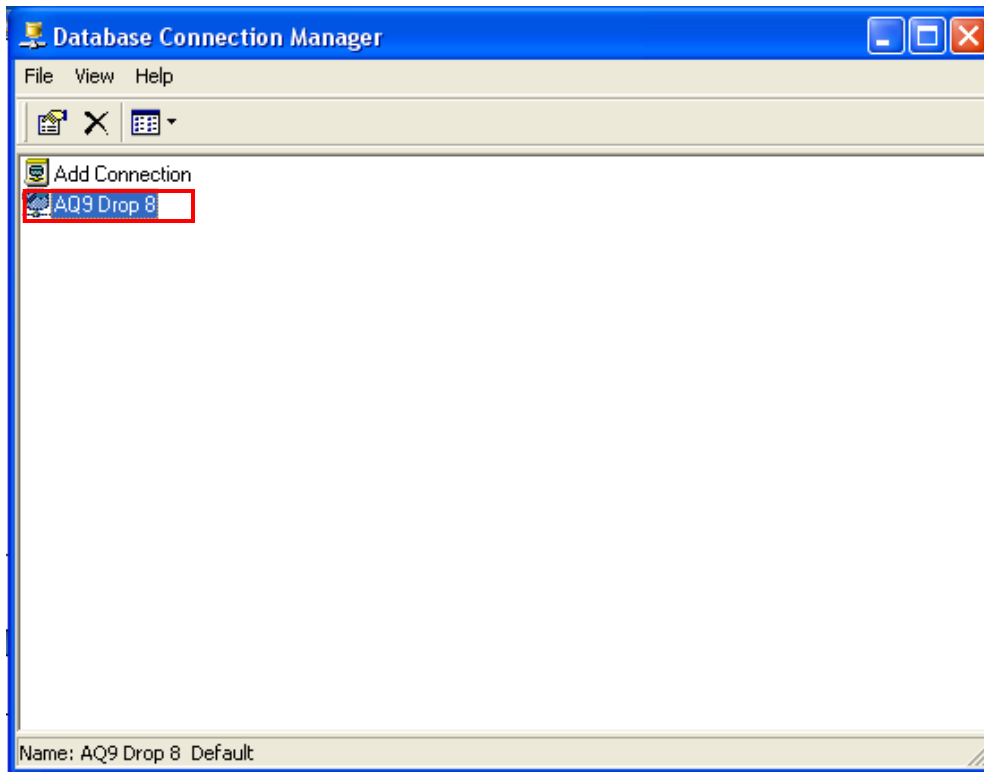
Password: xxxxxxxx

Servers: (N/A)

To close this wizard, click Finish.

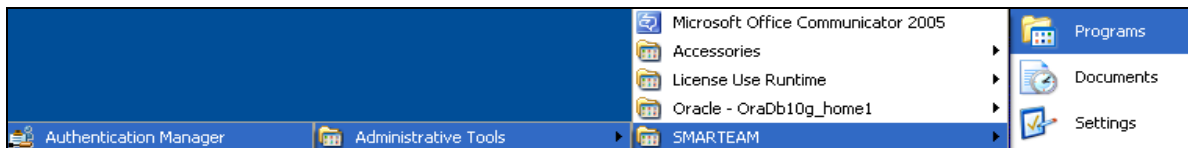
< Back Finish Cancel

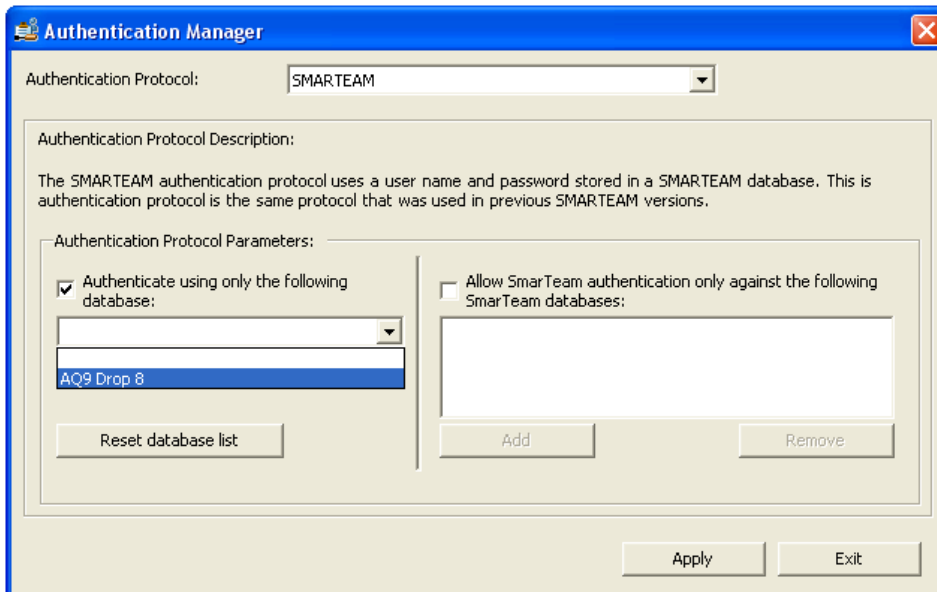
Click on Finish



Database is connected. Close the window

b. Select Database for Authentication





Authentication Manager

Authentication Protocol: SMARTTEAM

Authentication Protocol Description:

The SMARTTEAM authentication protocol uses a user name and password stored in a SMARTTEAM database. This authentication protocol is the same protocol that was used in previous SMARTTEAM versions.

Authentication Protocol Parameters:

☒ Authenticate using only the following database:

AQ9 Drop 8

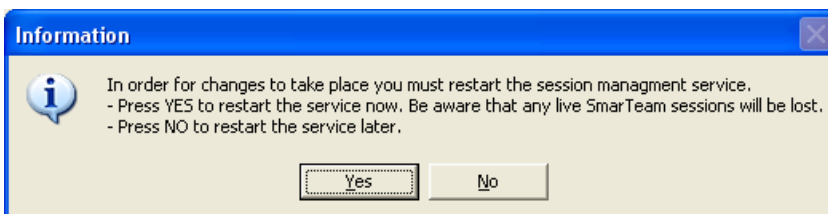
☐ Allow SmartTeam authentication only against the following SmartTeam databases:

Add Remove

Reset database list

Apply Exit

Authenticate Database. Apply changes.



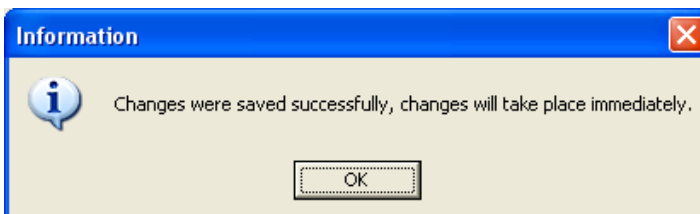
Information

In order for changes to take place you must restart the session management service.

- Press YES to restart the service now. Be aware that any live SmartTeam sessions will be lost.
- Press NO to restart the service later.

Yes No

Click on Yes.



Information

Changes were saved successfully, changes will take place immediately.

OK

Click on OK. Click Exit

Chapter 3: Implementation of APQP on an existing database

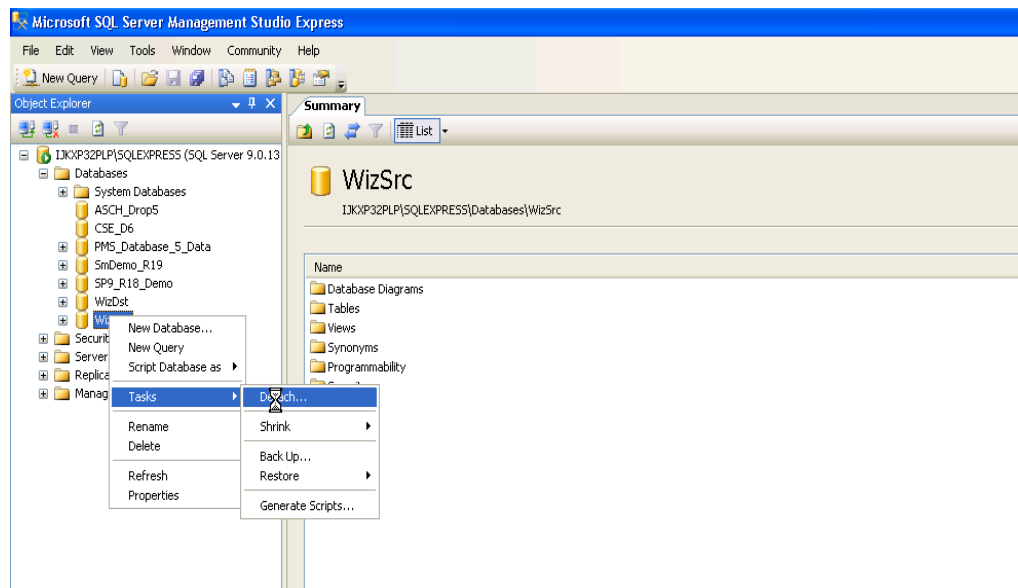
This chapter describes the steps that must be performed to implement the BPA APQP on top of PLM database. IF you need to implement it on top of another database, follow the same steps, only the screenshot will probably be different.

Note: The WizSrc database will not be provided along with the setup. It will be provided only if required by the customer. Hence the Wizsrc DB will not be copied in the SmarTeam\DB directory as it is not present in the setup.

1. Data Model Source (WizSrc)

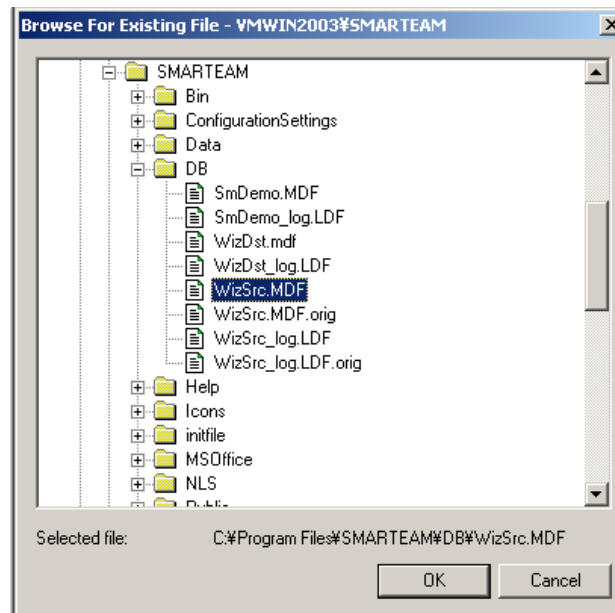
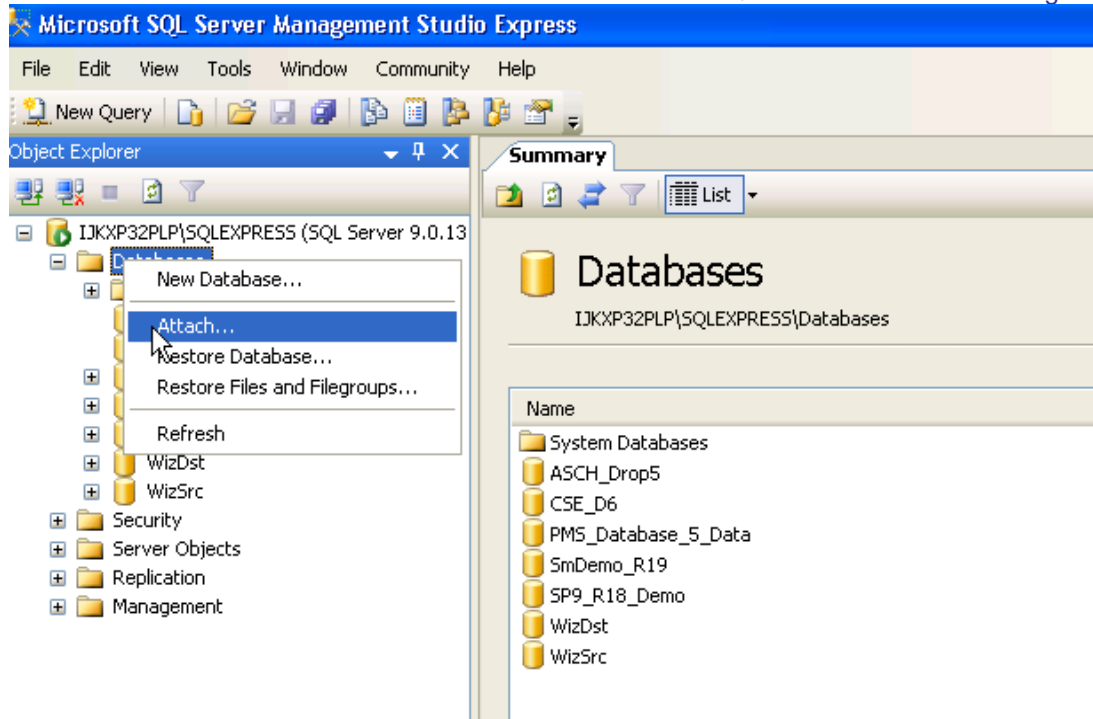
a. In case you have SQL Server Management Studio

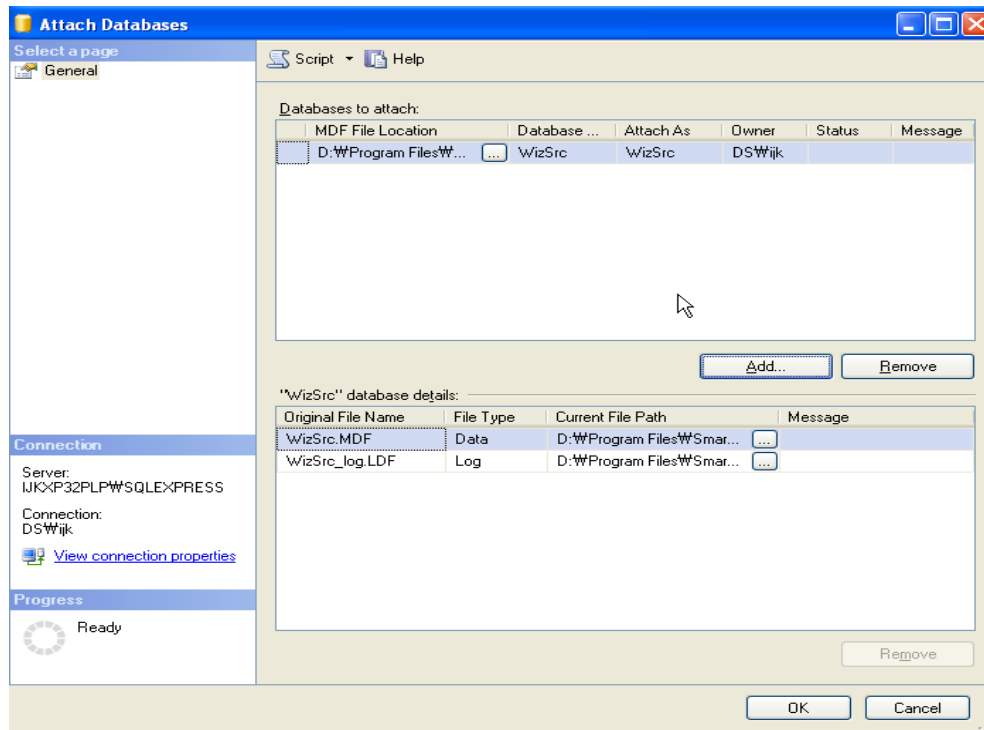
1. Check that a WizSrc.mdf file was copied in the DB directory
2. Detach the original one in SQL Server Management Studio



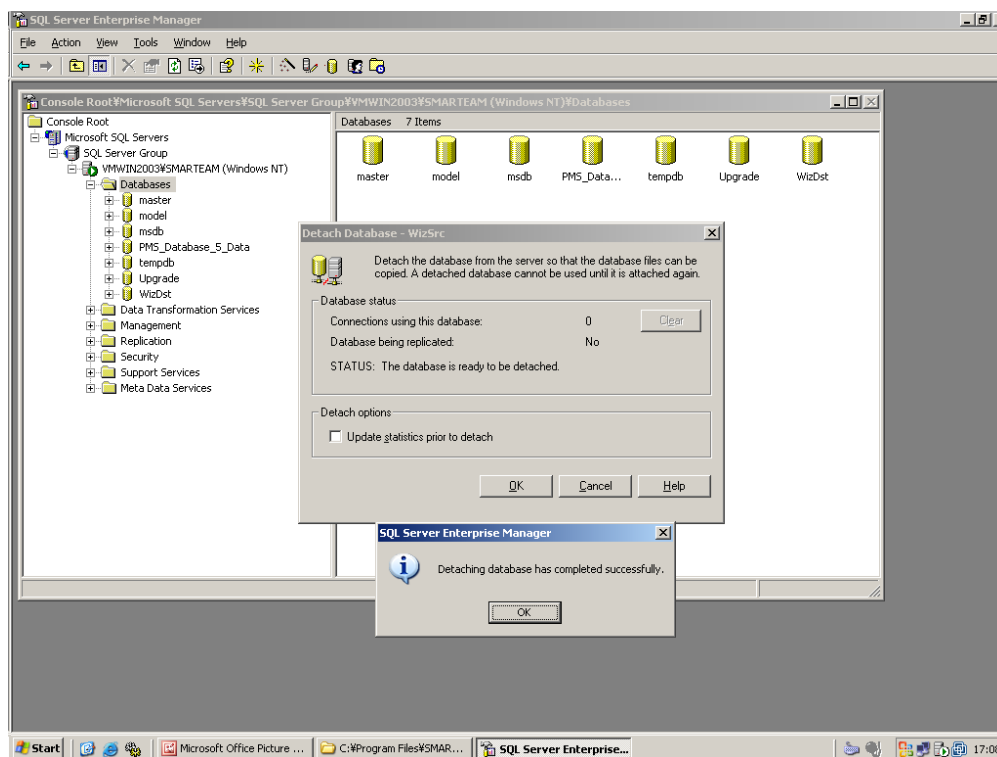
3. Replace the original one with the new one

4. Attach the new one in SQL Server Management Studio

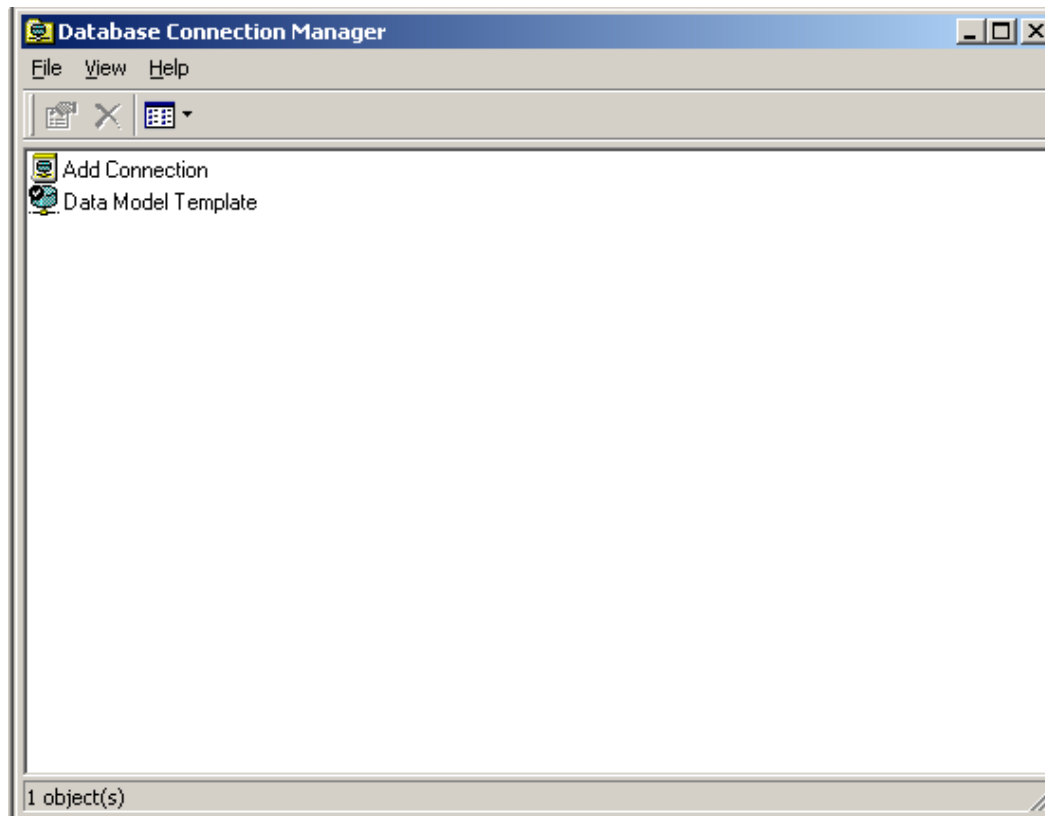




5. Detach again the database



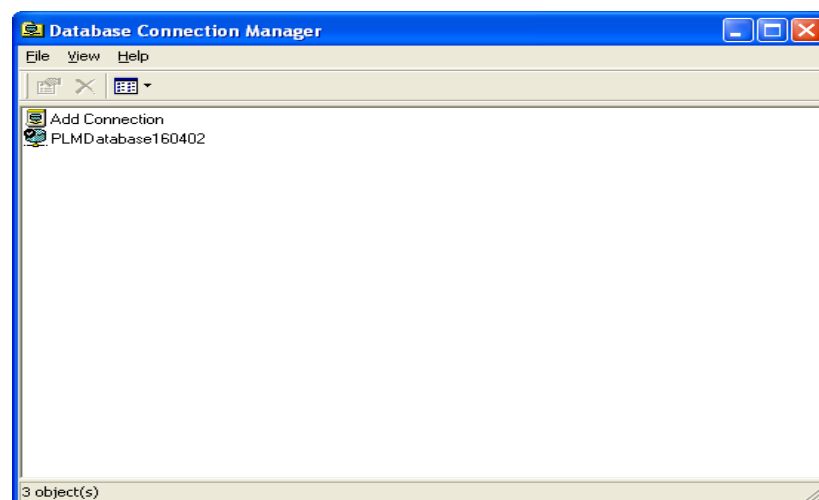
6. Attach the Wizsrc with Database Connection Manager



7. Delete this newly created connection (Delete, not Detach)

b. In case you don't have SQL Server Management Studio

By default, a standard WizSrc database is already connected to Smarteam. But, if you open the Database connection manager, you will not see any WizSrc displayed, as shown below:



The WizSrc database cannot be found here.

To disconnect it, you will need to use command lines.

- open a cmd window : click on "start"->"execute", then type "cmd" and press "enter"
- Type the following command:

Osql -S .\smarteam -U sa

"Sa" is the user name generally used. If you have set another one, you may type it instead.
You may then get the following window:



- Type the password that's prompted. Usually "sa" or "smarteam"
- You should get the following prompt :

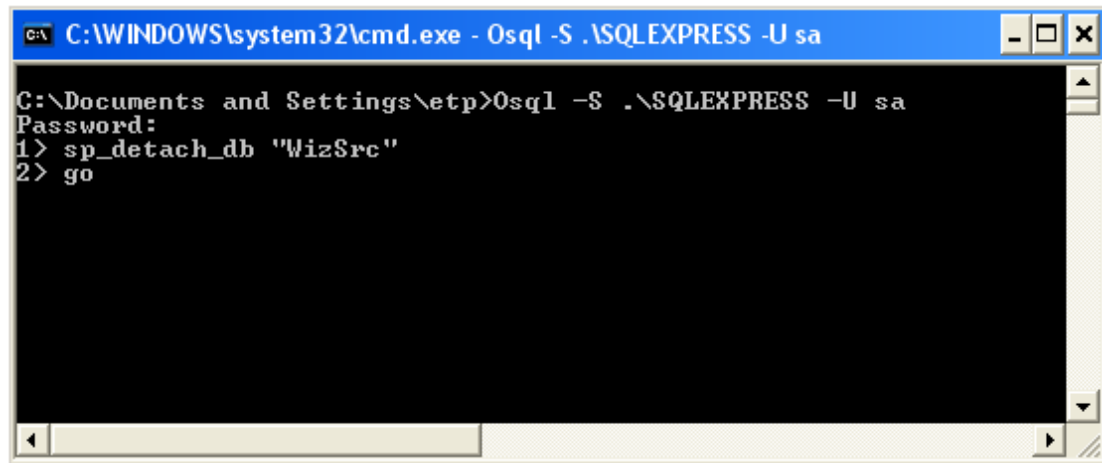


- Then at this prompt, type the following instruction and press enter.

sp_detach_db "WizSrc"

Here, "WizSrc" is the name of your WizSrc database. Do not forget the quotes.

- To actually execute the previous command, type "go" and press enter as shown below :



```

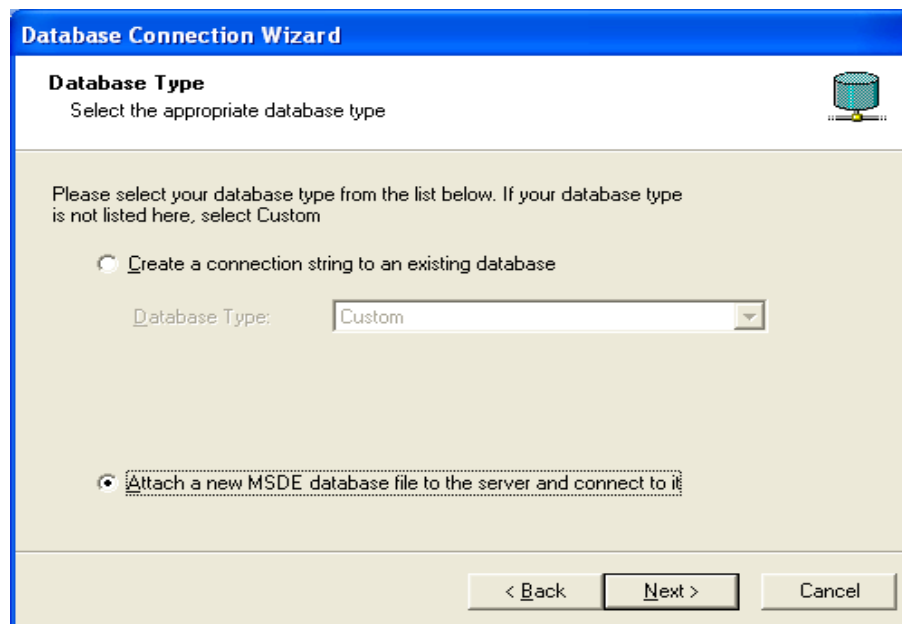
C:\WINDOWS\system32\cmd.exe - Osql -S .\SQLEXPRESS -U sa
C:\Documents and Settings\etp>Osql -S .\SQLEXPRESS -U sa
Password:
1> sp_detach_db "WizSrc"
2> go

```

- Then type “exit” (without quotes here) and close the cmd window.

You can now replace the previous WizSrc.mdf file with the new one. Place it in the DB folder of your Smarteam installation, usually: c:\program file\smarteam\db\

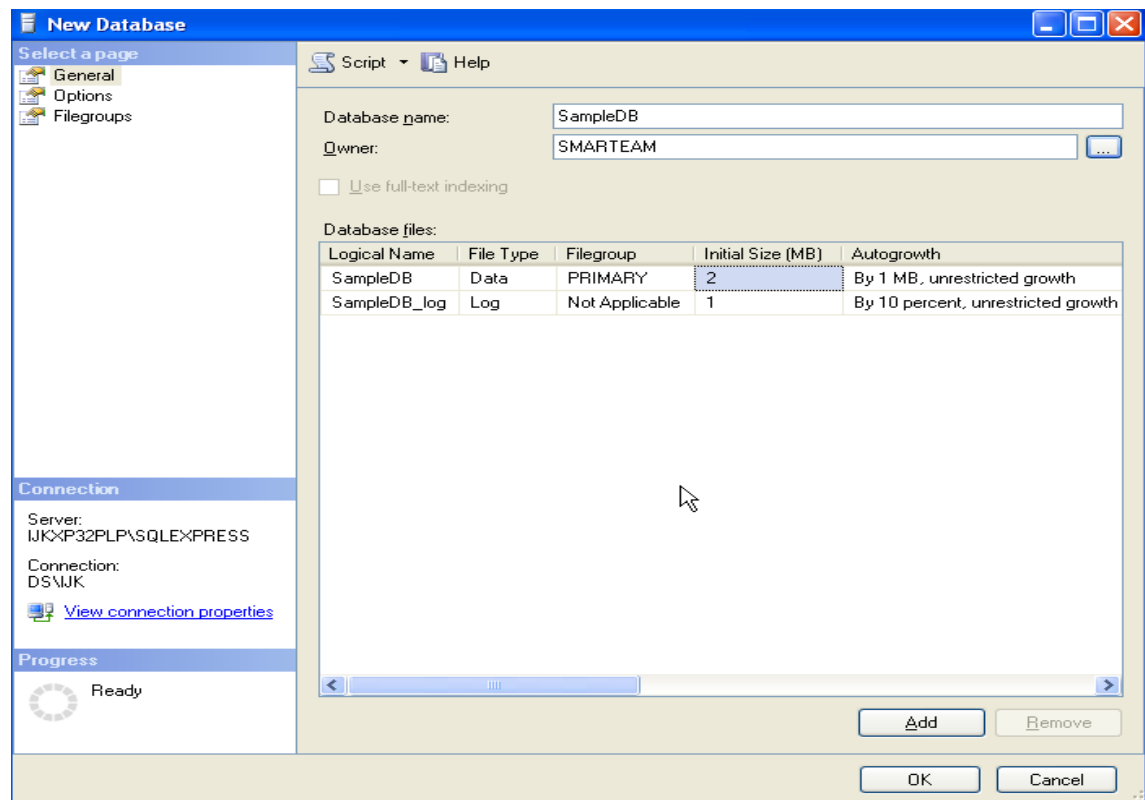
- Do not forget to delete the WizSrc.LDF (log file) that is placed in the same directory.
- Now you can simply connect the new WizSrc file as a normal database with the Smarteam Database connection manager.



2. *Create a new Database*

Create a new DB in SQL Server Management Studio and be sure you select the right **Collation Name** you wanted.

Note: The collation name should be case insensitive (CI), not case sensitive (CS). Here is a sample



New Database

Select a page: General, Options, Filegroups

Script Help

Database name: SampleDB

Owner: SMARTEAM

☐ Use full-text indexing

Database files:

Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth
SampleDB	Data	PRIMARY	2	By 1 MB, unrestricted growth
SampleDB_log	Log	Not Applicable	1	By 10 percent, unrestricted growth

Connection:

Server: IJKXP32PLP\SQLEXPRESS

Connection: DS\JK

[View connection properties](#)

Progress: Ready

Add Remove

OK Cancel

New Database

Select a page: General, Options, Filegroups

Script Help

Collation: Chinese_Taiwan_Stroke_CI_AS

Recovery model: Simple

Compatibility level: SQL Server 2005 (90)

Other options:

☒ **Automatic**

Auto Close	False
Auto Create Statistics	True
Auto Shrink	False
Auto Update Statistics	True
Auto Update Statistics Asynchronously	False

☒ **Cursor**

Close Cursor on Commit Enabled	False
Default Cursor	GLOBAL

☒ **Miscellaneous**

ANSI NULL Default	False
ANSI NULLS Enabled	False
ANSI Padding Enabled	False
ANSI Warnings Enabled	False
Arithmetic Abort Enabled	False
Concatenate Null Yields Null	False
Cross-database Ownership Chaining Enabled	False
Date Correlation Optimization Enabled	False
Numeric Round-Absort	False

ANSI NULL Default

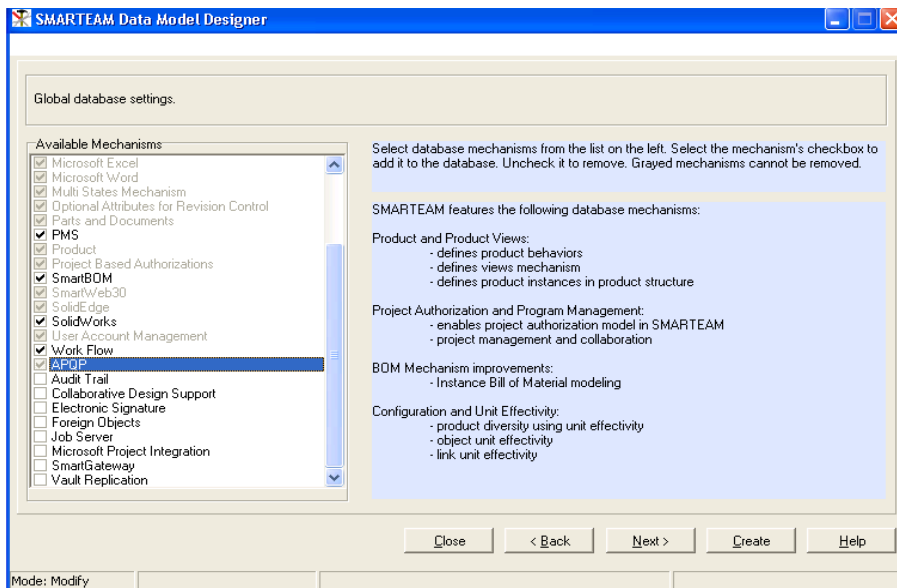
OK Cancel

Add SMARTEAM login to the DB as DB owner

With SmartDBExplorer, copy PLM Database to the new database

3. *Data Model Designer*

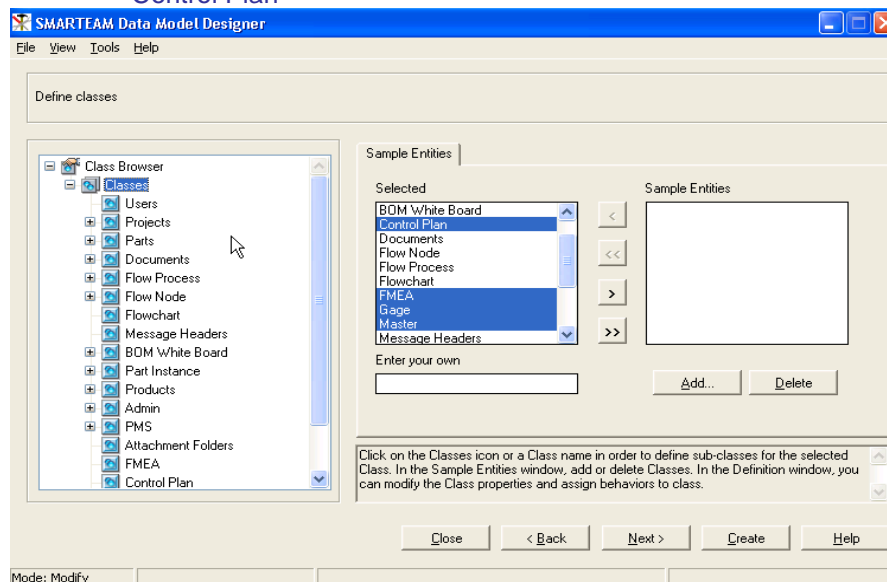
1. Launch SMARTEAM Data Model Designer
2. Modify PLM database (or the database you want to add APQP in)
3. Global database settings
 - 3.1 Un-check (Remove) “Program Management”
 - 3.2 Select “APQP”



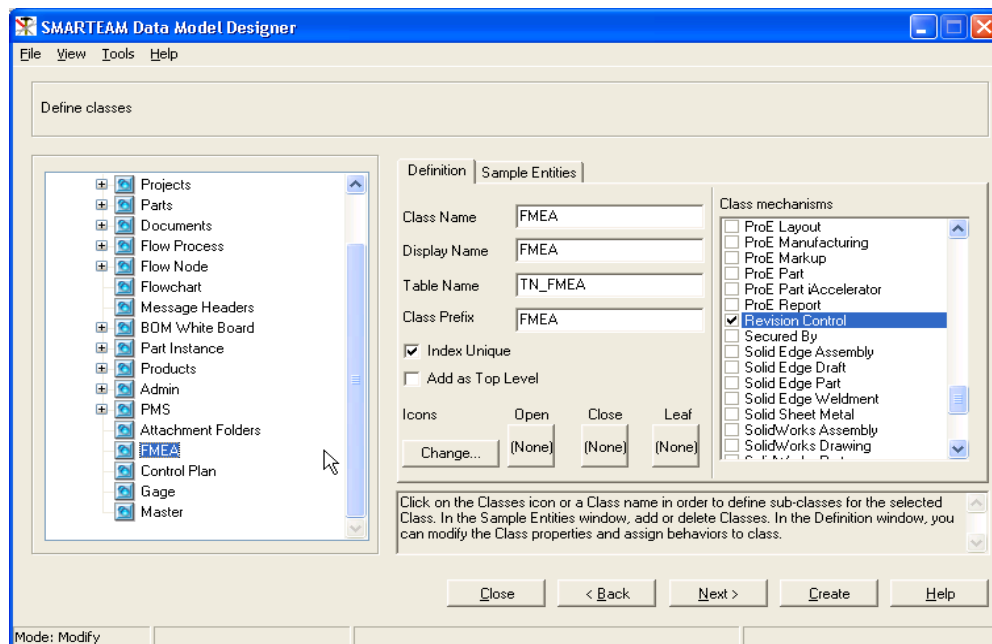
3.3 Click button “Next”

Using “define classes” screen, add classes as shown.

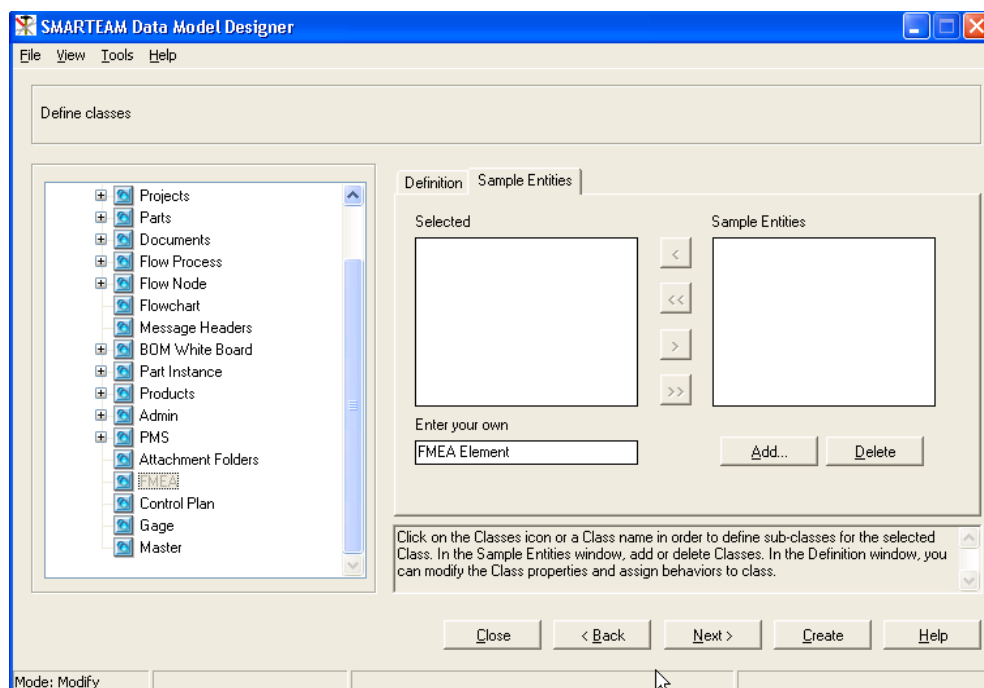
- FMEA
- Gage
- Master
- Control Plan

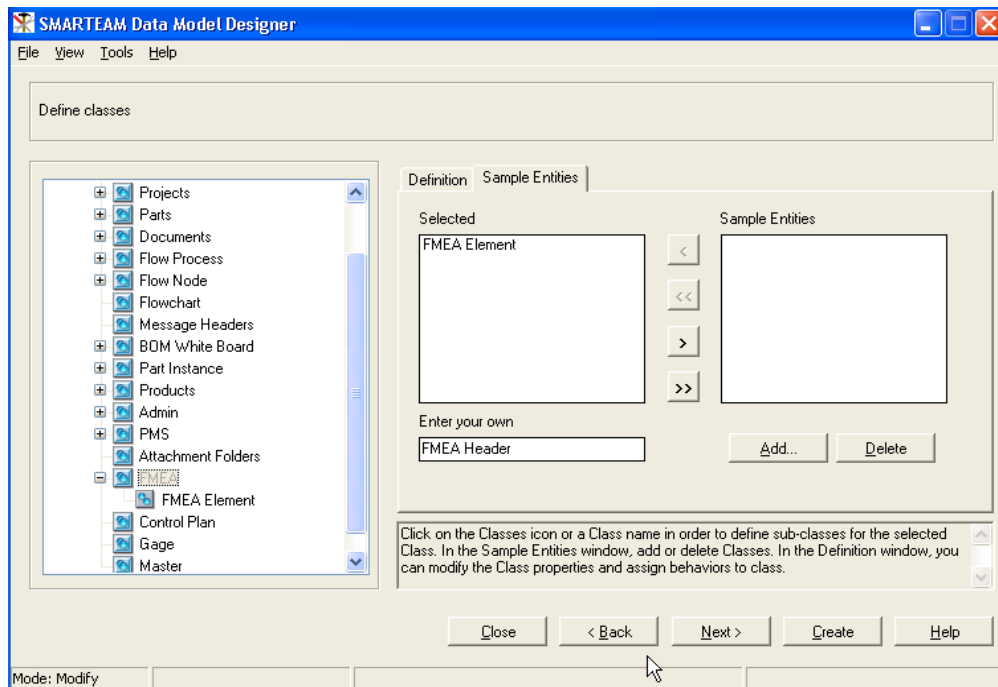


4. Select FMEA class from class browser. Select “Revision Control” mechanism from class mechanism window. Check Index Unique check box.



5. Add two sub classes to FMEA class, which are **FMEA Element** and **FMEA Header**

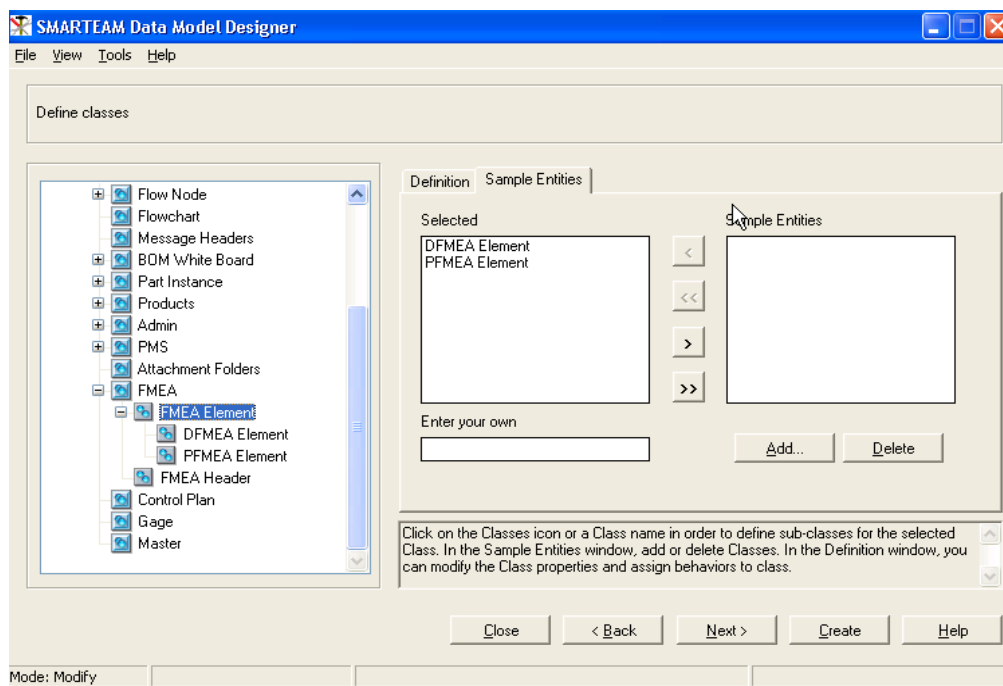




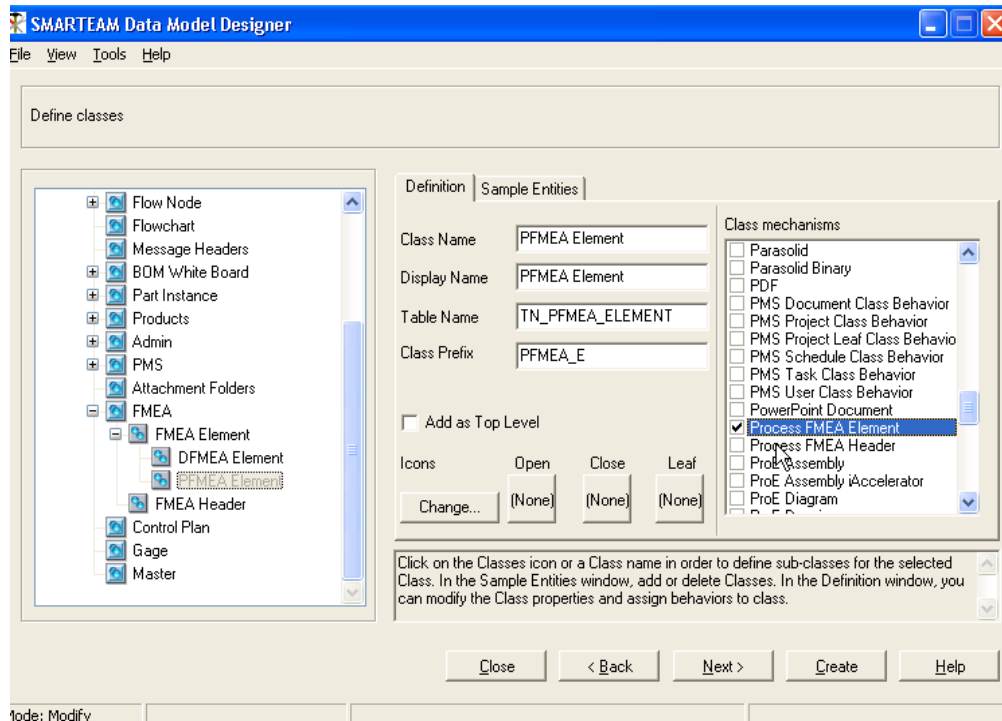
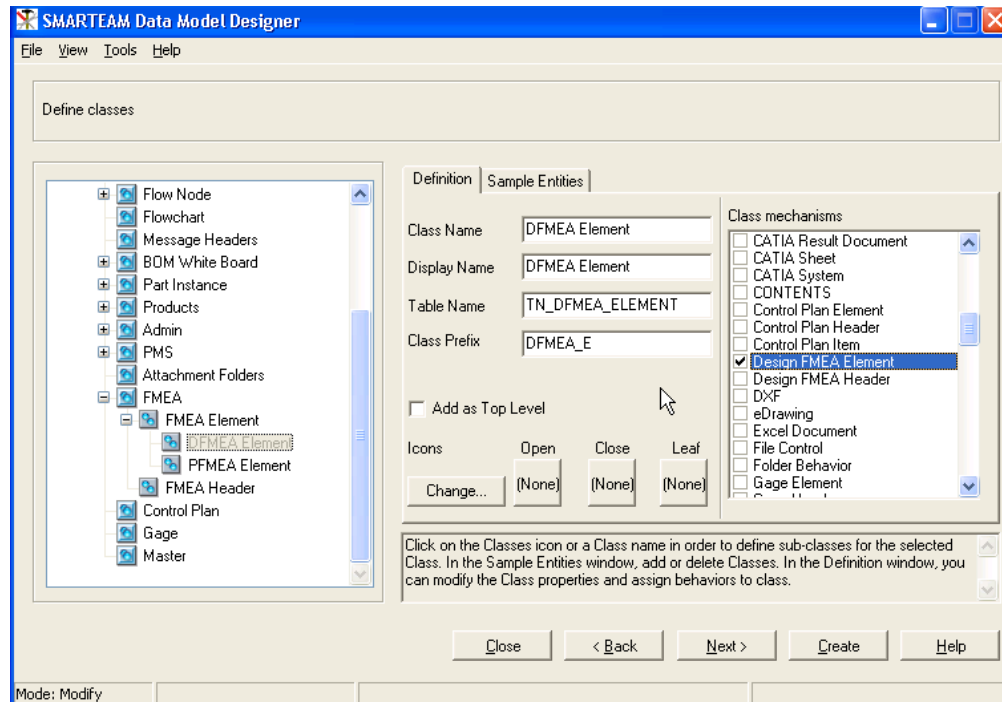
6. Select FMEA Element class. Check Index Unique.

Add two sub classes to FMEA Element class

- DFMEA Element and PFMEA Element

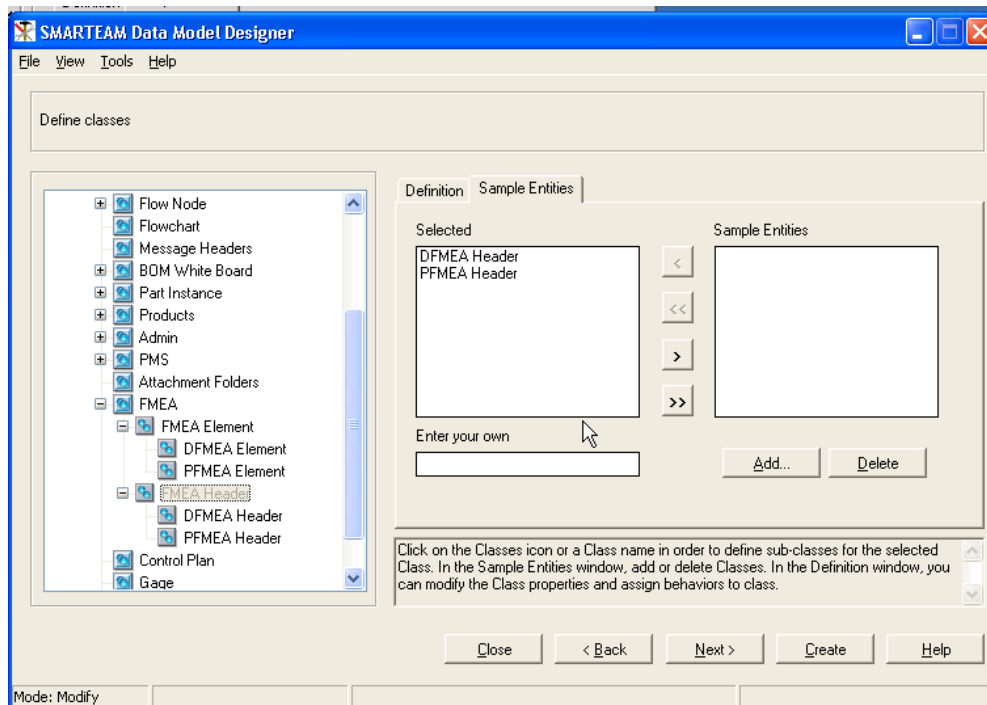


7. Add “Design FMEA Element” class mechanism to DFMEA Element Subclass and “Process FMEA Element” class mechanism to PFMEA Element subclass as shown.

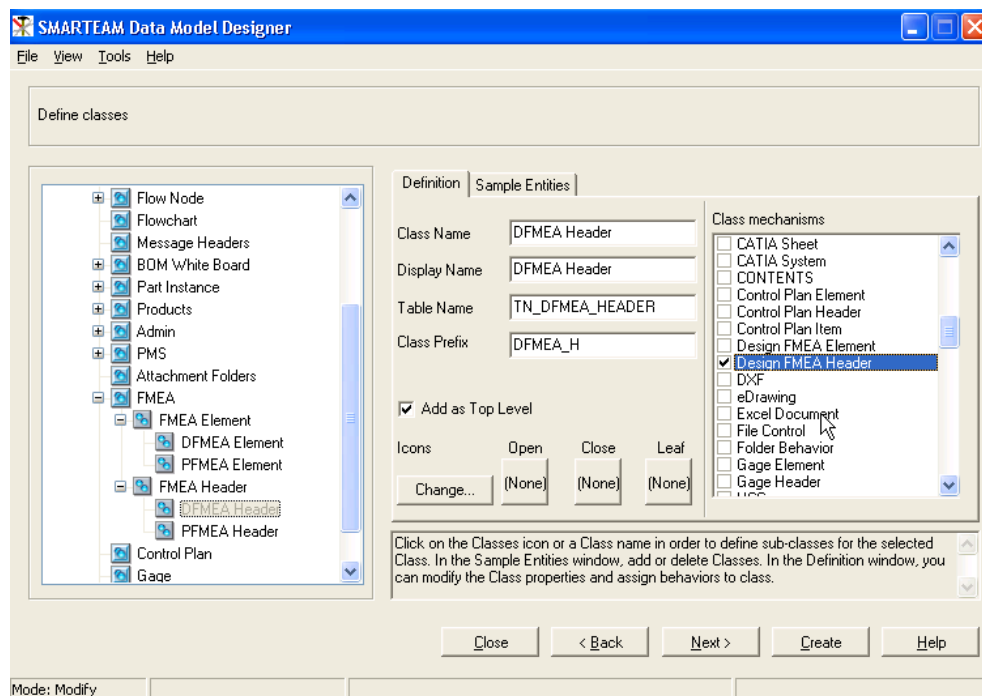


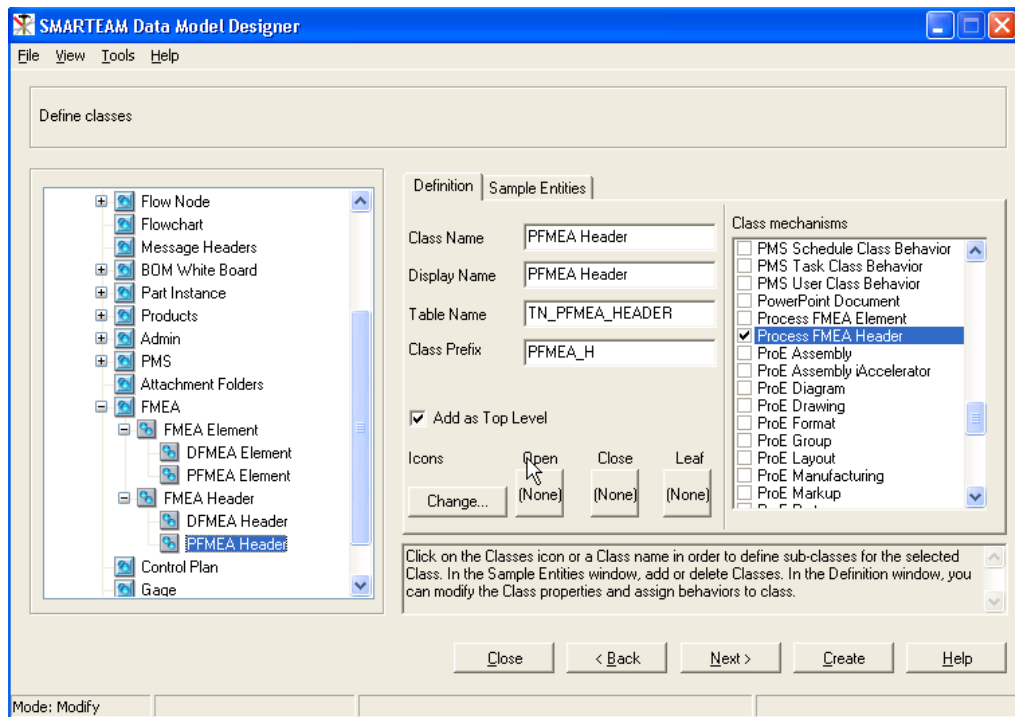
8. Select FMEA Header class

Add two sub classes to FMEA Header class
- DFMEA Header and PFMEA Header



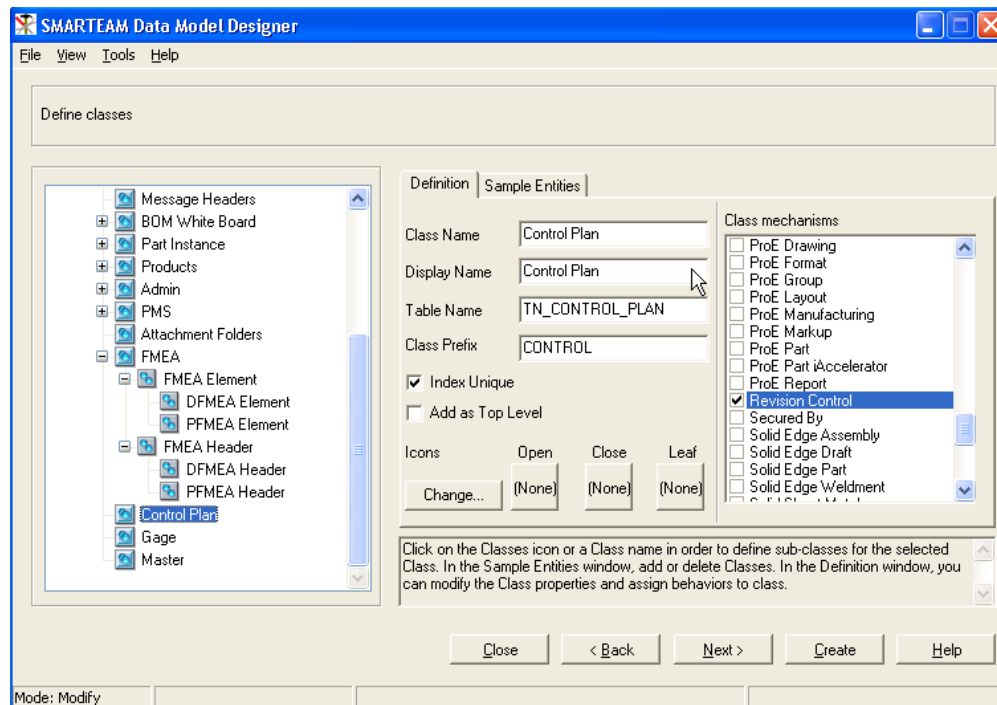
9. Check the “Add as top level” check box for both the sub classes DFMEA Header and PFMEA Header
10. Add “Design FMEA Header” class mechanism to DFMEA Header Subclass and “Process FMEA Header” class mechanism to PFMEA Header subclass as shown



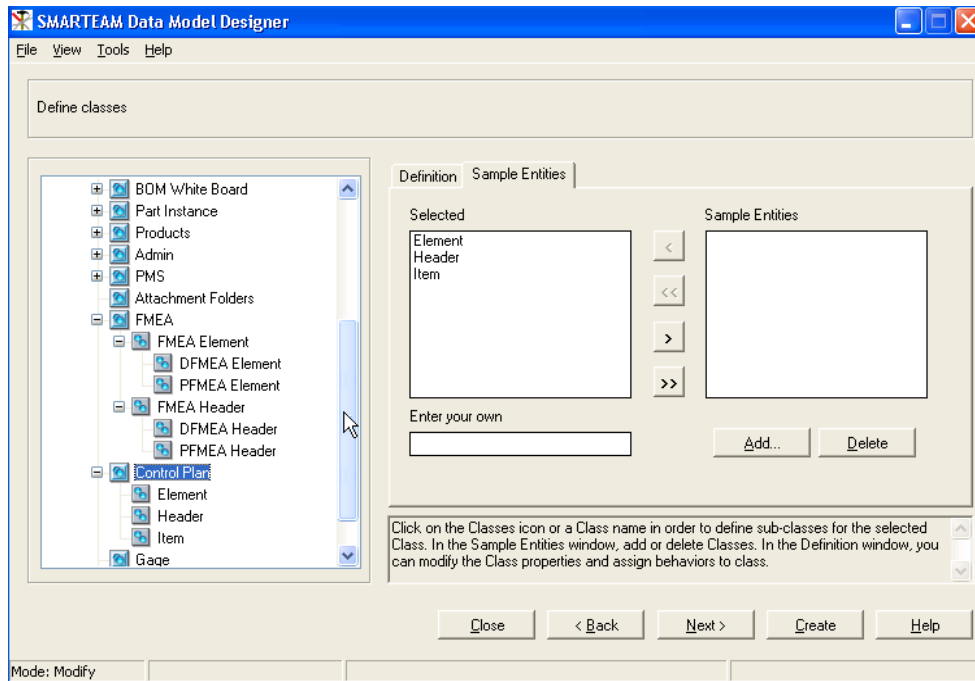


11. Select Control Plan class.

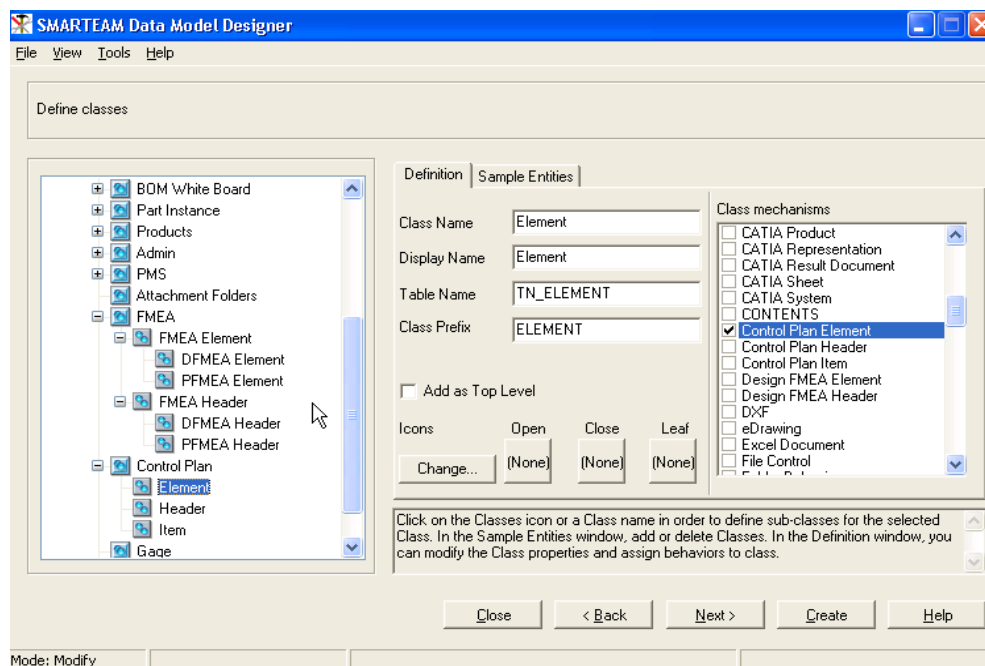
Check "Index Unique". Add "Revision Control" class mechanism to Control Plan class.



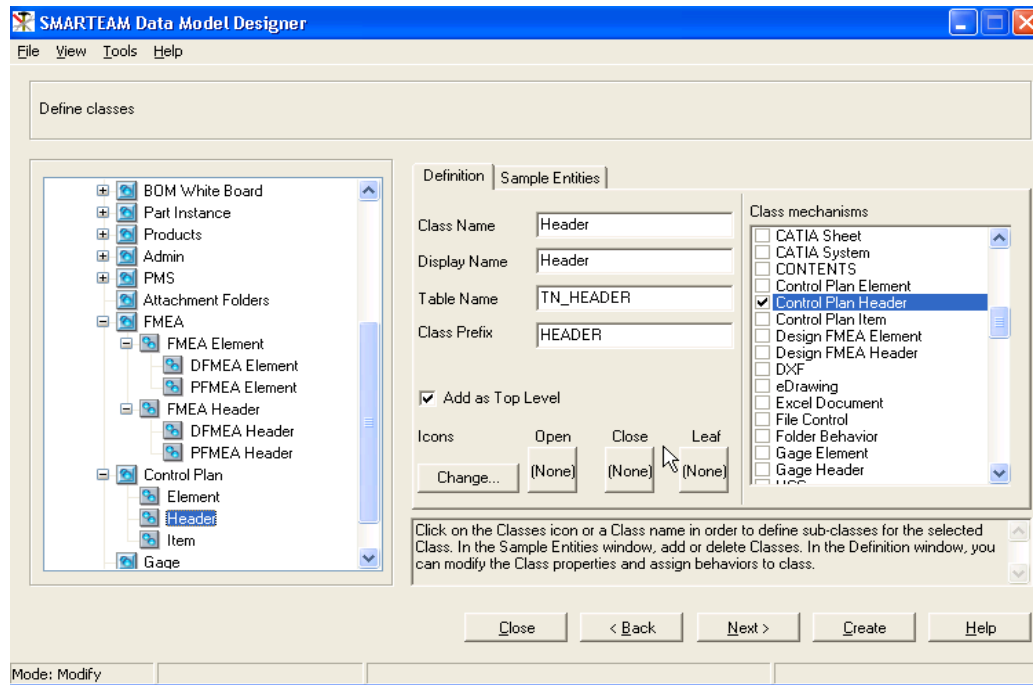
12. Add three sub classes to Control Plan class
 - Element, Header and Item



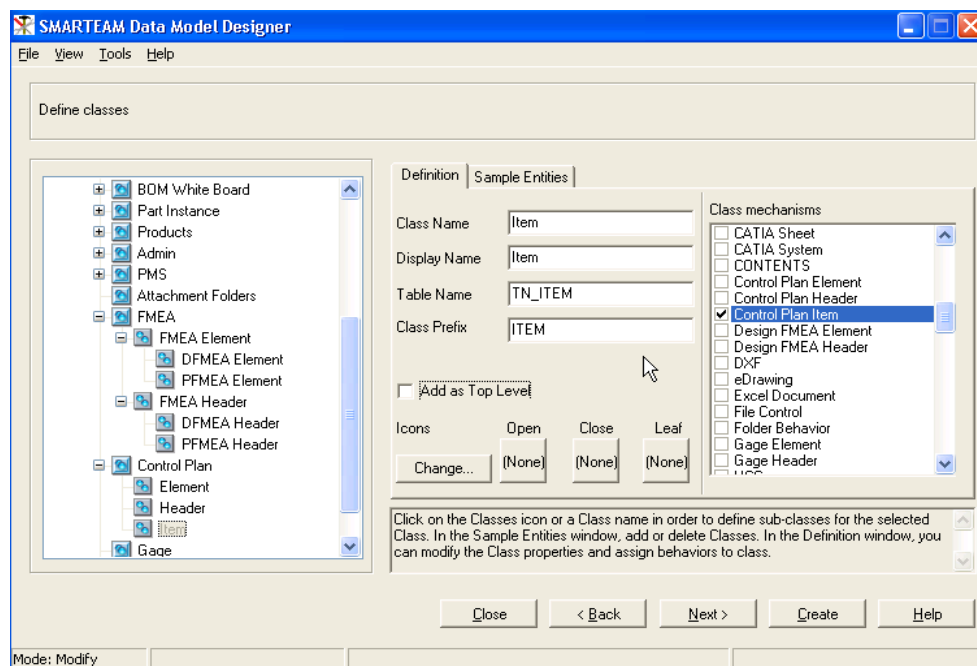
13. Add “Control Plan Element” class mechanism to Element class.



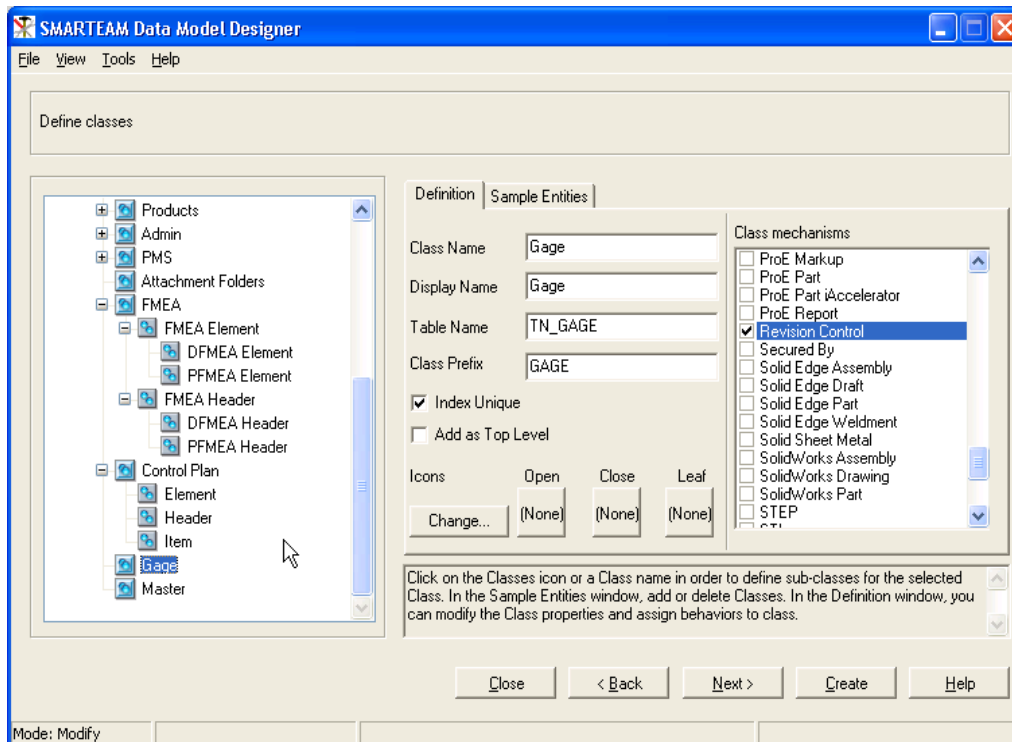
14. Add “Control Plan Header” class mechanism to Header Class



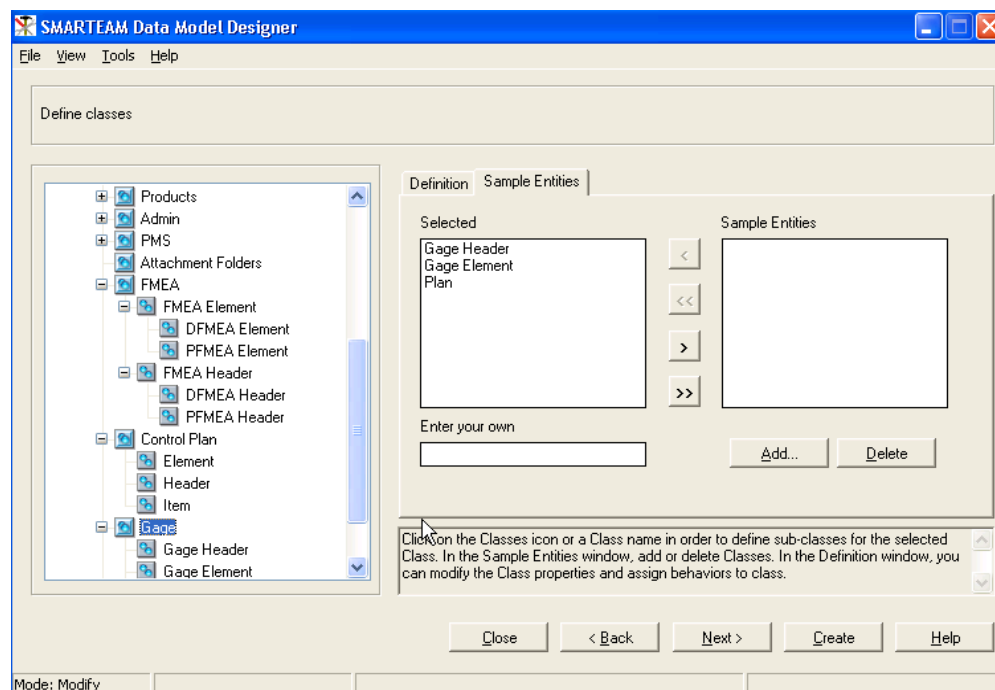
15. Add “Control Plan Item ” class mechanism to Item class



16. Select Gage Class. Add “Revision Control” mechanism to Gage class.

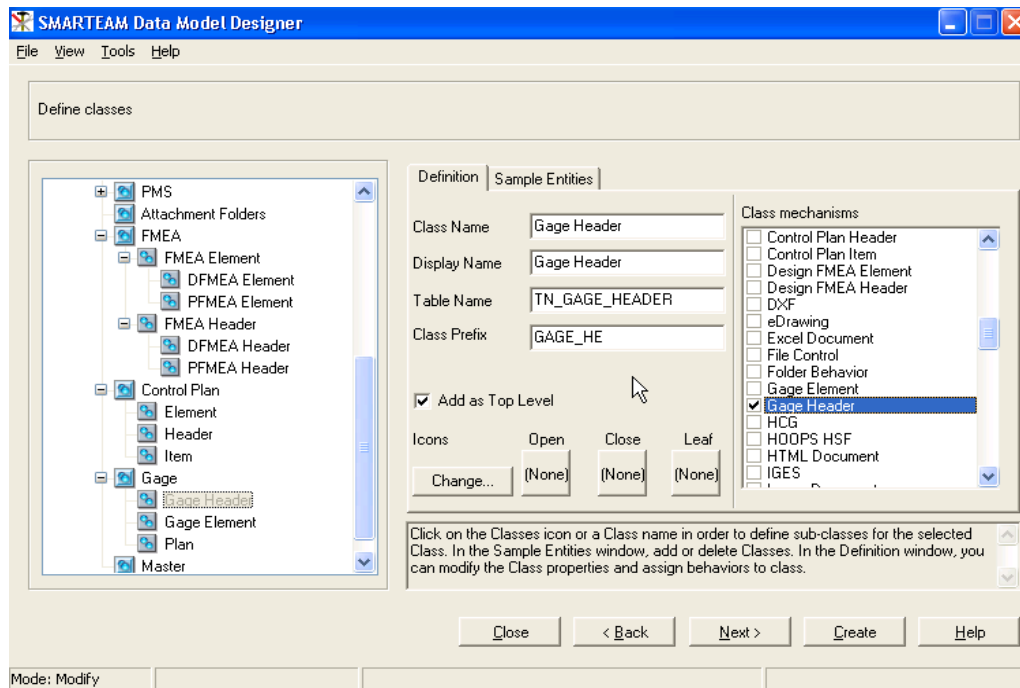


17. Add three sub classes to Gage class
 - Gage Header, Gage Element, and Plan.

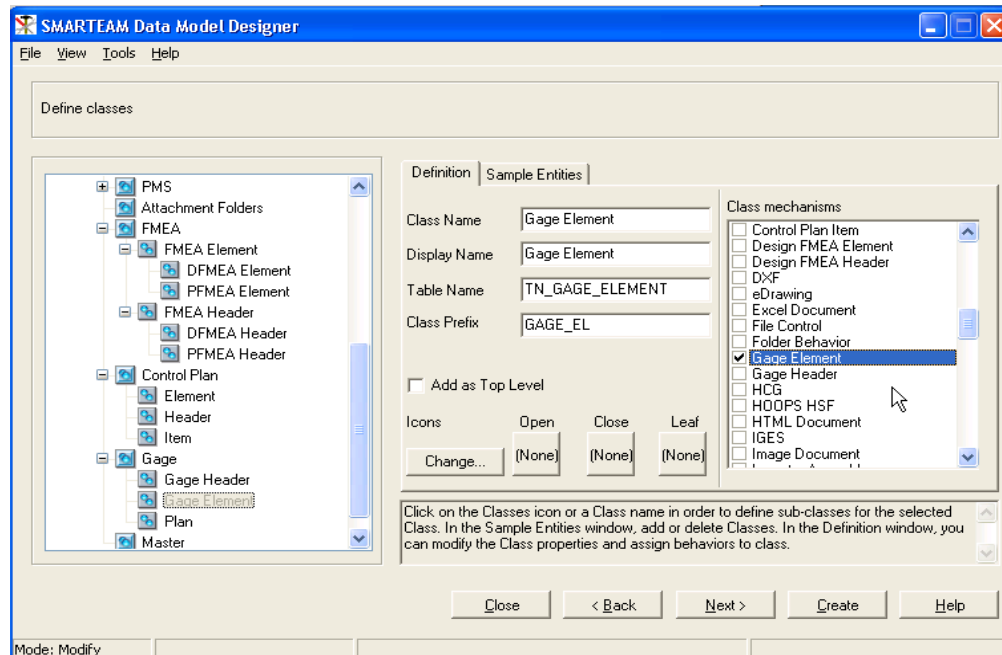


18. Add "Gage Header" class mechanisms to Gage Header class

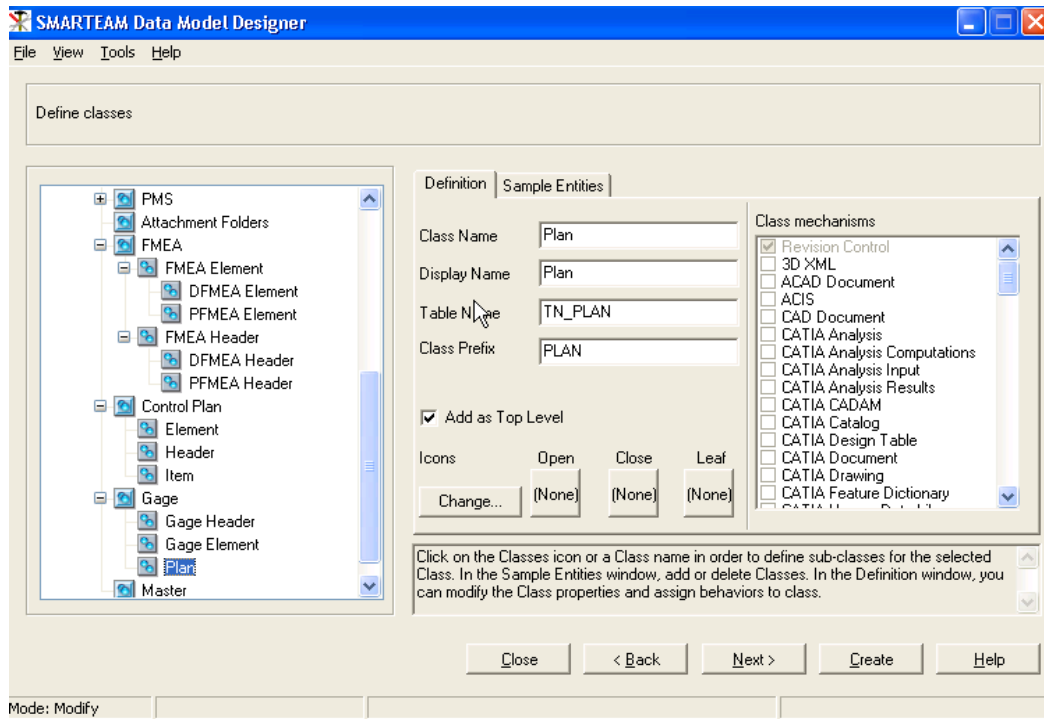
Check on “Add as Top Level” for Gage Header class.



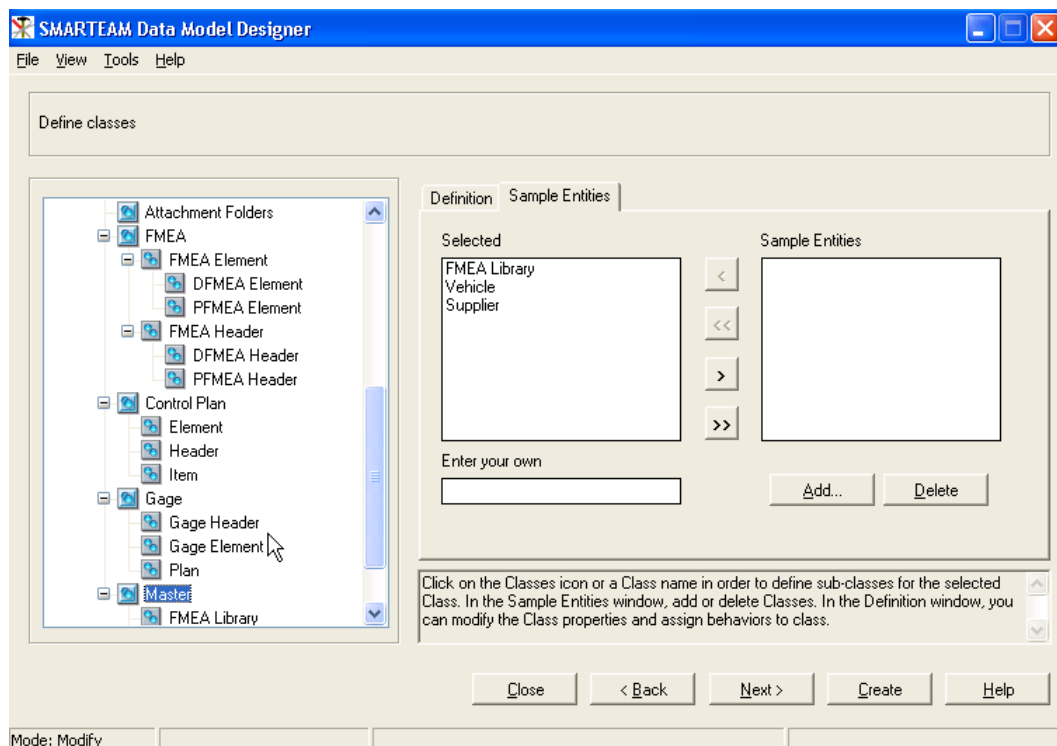
19. Add “Gage Element class mechanism” to Gage Element class.



20. Select “Plan” Class. Check on Add as Top Level.

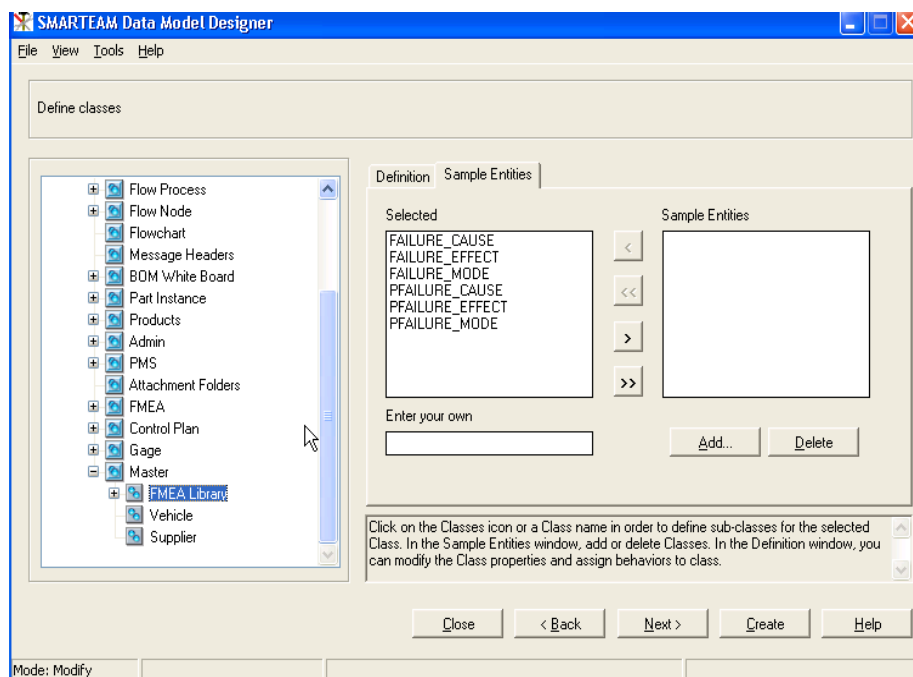


21. Select Master Class. Add three sub class:
FMEA Library, Vehicle and Supplier

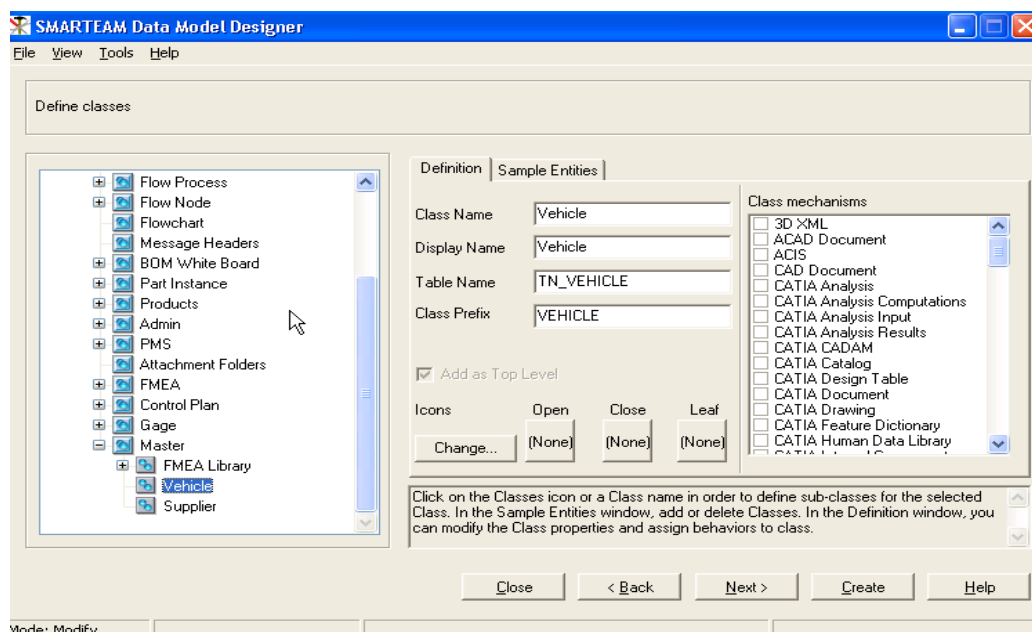


22. Select FMEA Library class and add six sub-classes

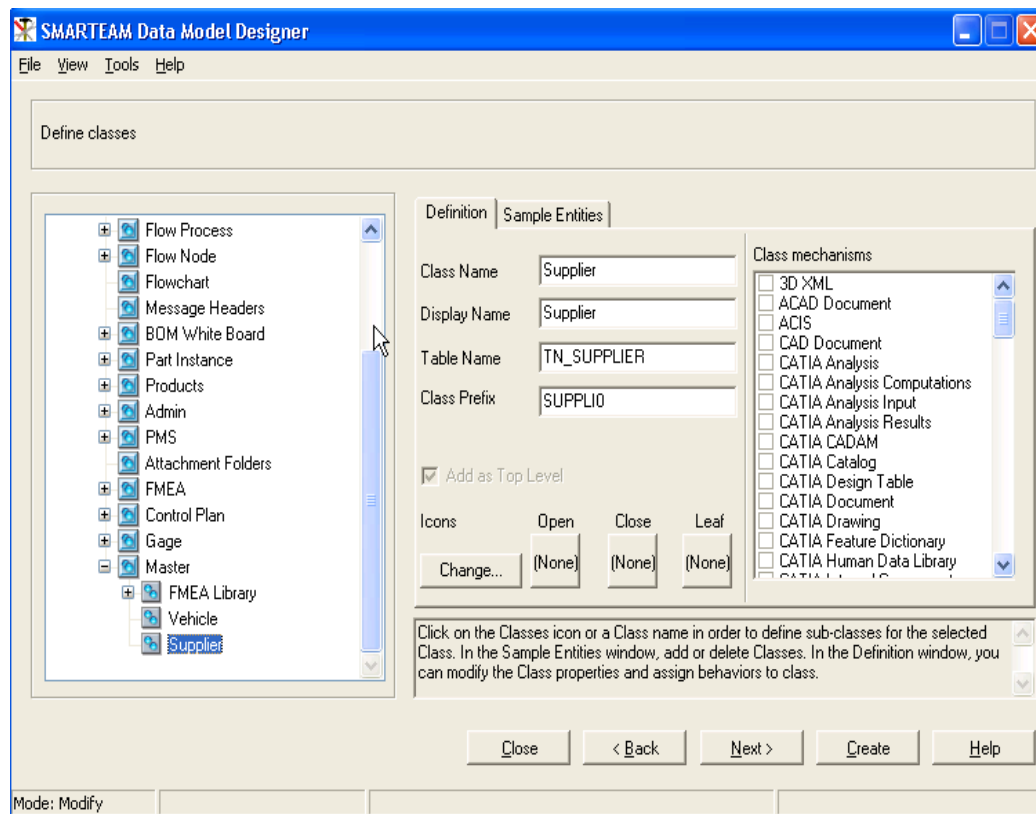
FAILURE_CAUSE,
FAILURE_MODE,
FAILURE_EFFECT,
PFAILURE_CAUSE,
PFAILURE_MODE,
PFAILURE_EFFECT



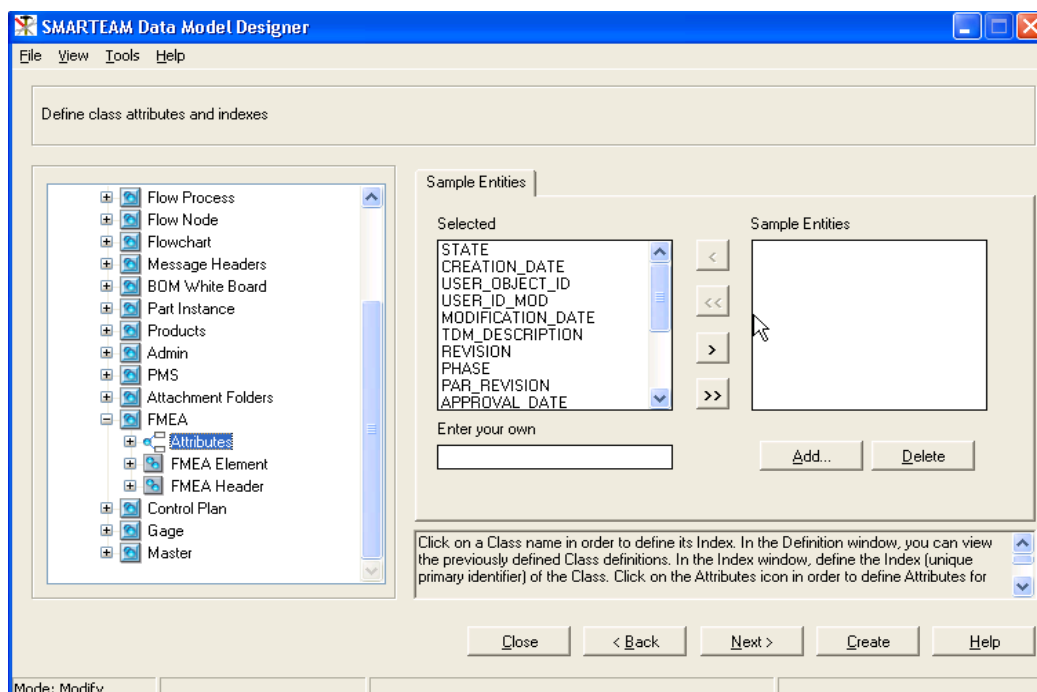
23. Select Vehicle Class. Check Add as Top Level



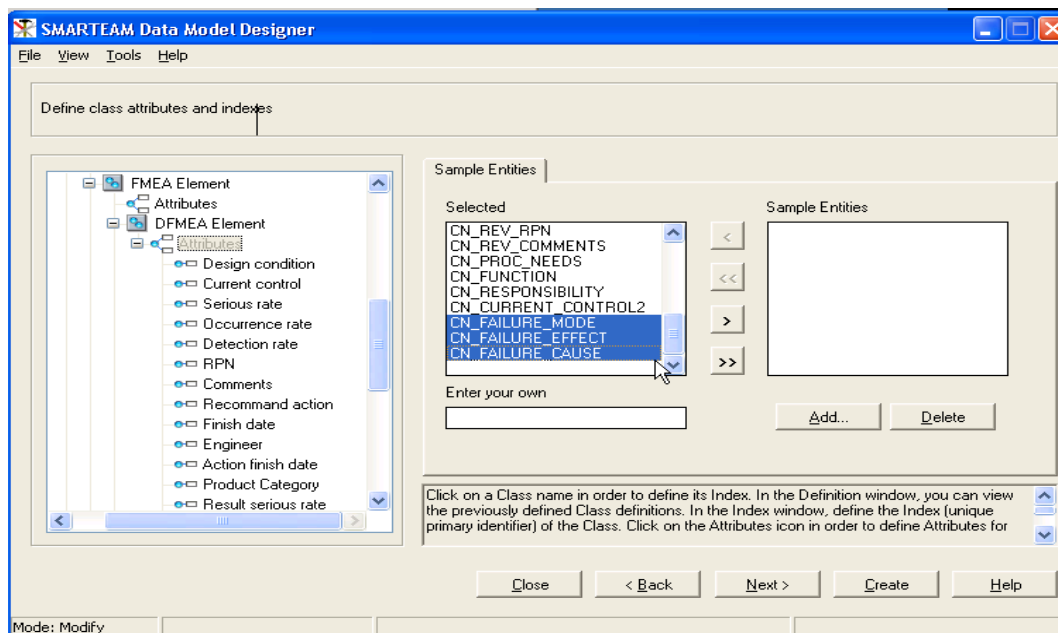
24. Select Supplier Class. Check Add as Top Level.



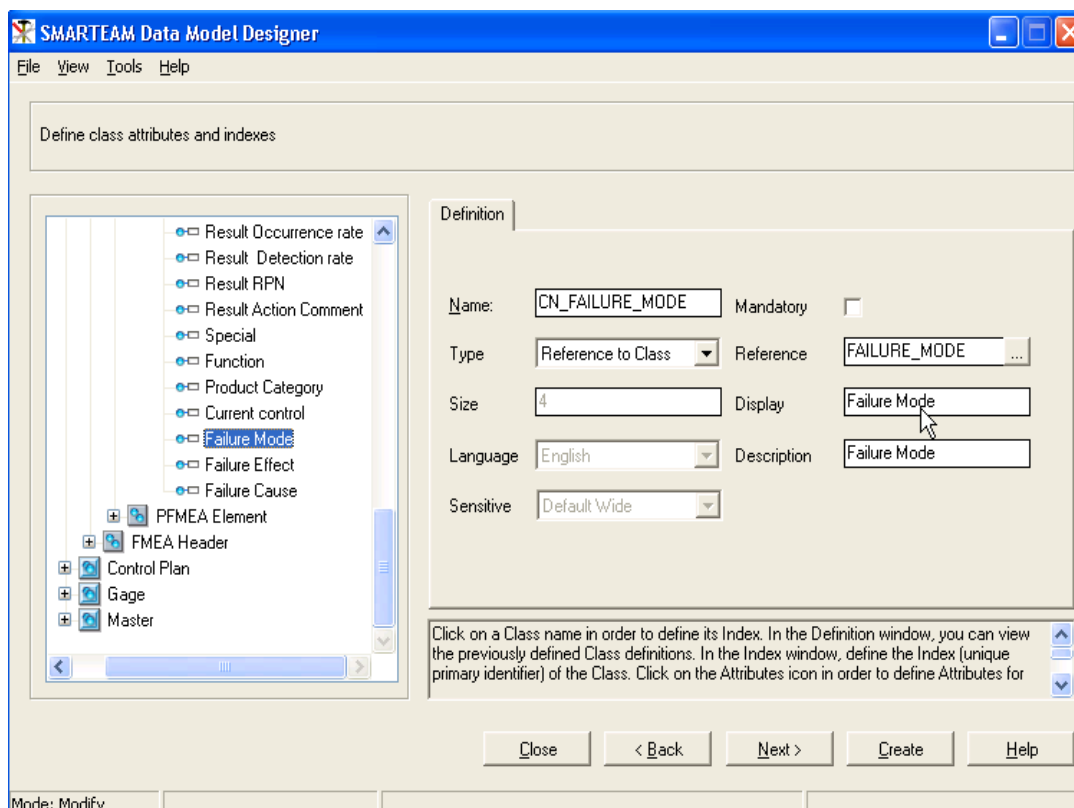
25. Click on Next button. Following window will appear showing Attributes.



26. Select DFMEA Element under FMEA Element class. Add three attributes.
CN_FAILURE_MODE, CN_FAILURE_EFFECT, CN_FAILURE_CAUSE



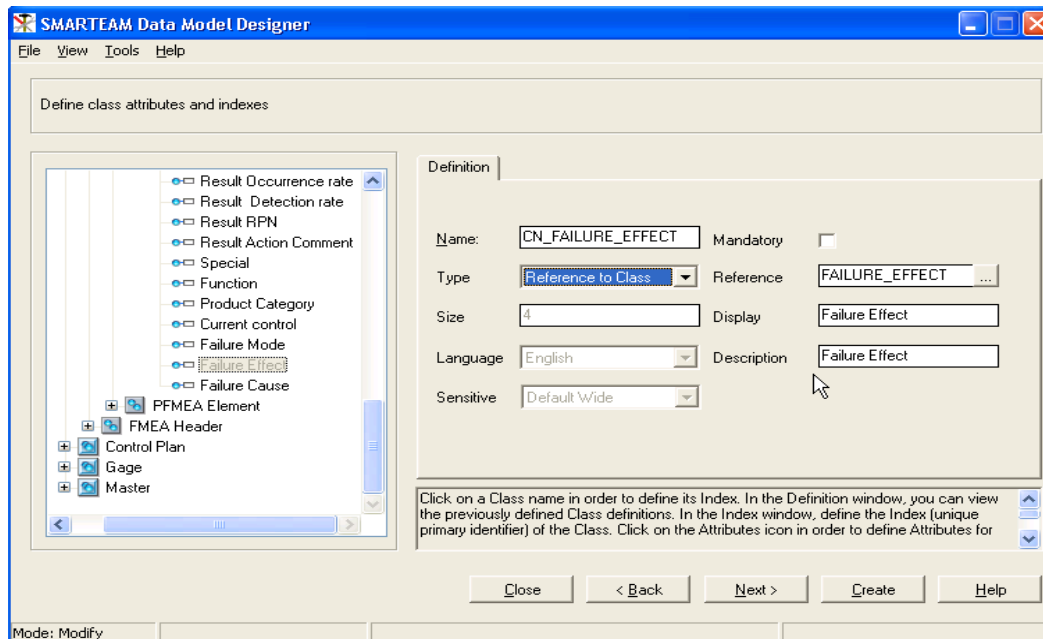
27. Select CN_FAILURE_MODE attribute.
Change Display and Description as Failure Mode Select Type as Referenced to Class
and add Reference to FAILURE_MODE under FMEA Library



28. Select CN_FAILURE_EFFECT Attribute.

Change Display and Description as Failure Effect.

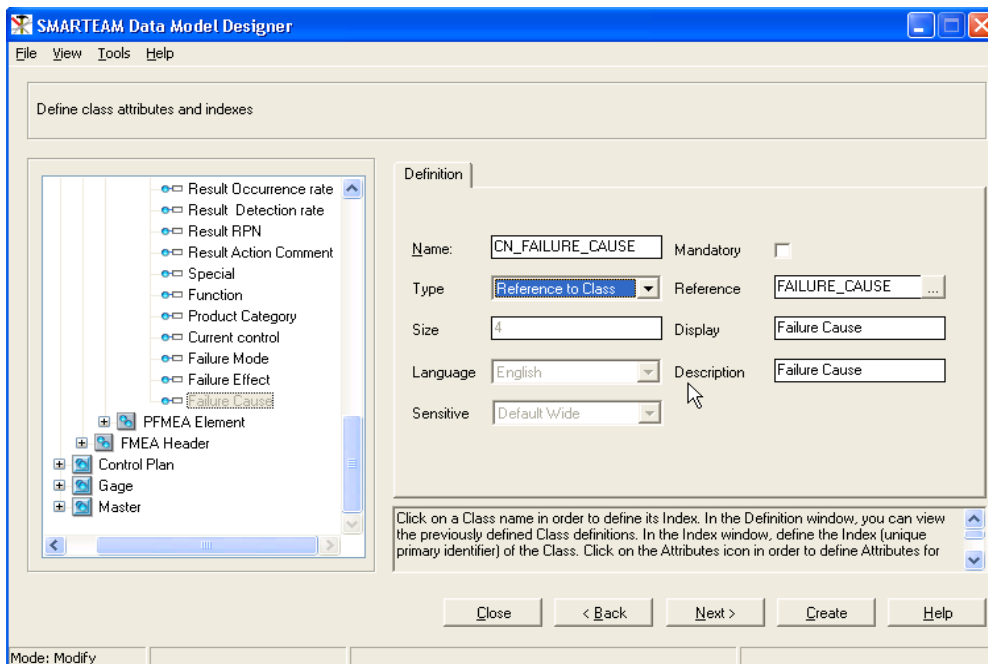
Select Type as Referenced to Class and add Reference to FAILURE_EFFECT under FMEA Library.



29. Select CN_FAILURE_CAUSE Attribute.

Change Display and Description as Failure Cause.

Select Type as Referenced to Class and add Reference to FAILURE_CAUSE under FMEA Library



30. Select PFMEA Element under FMEA Element class. Add three attributes.

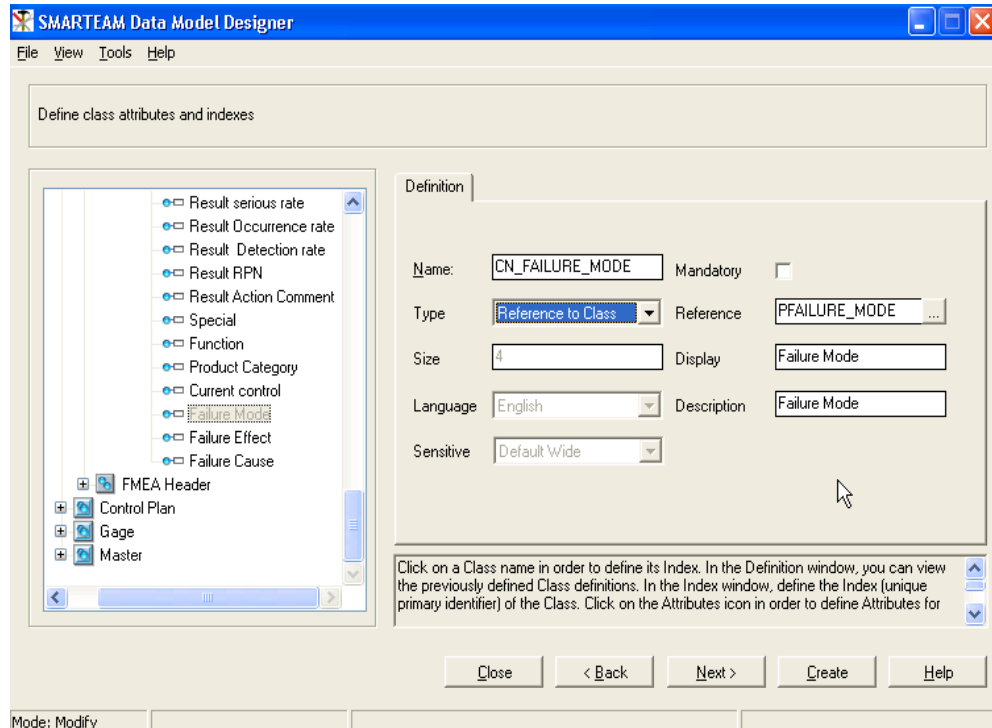
CN_FAILURE_MODE, CN_FAILURE_EFFECT, CN_FAILURE_CAUSE

(Similarly as done for DFMEA Element)

31. Select CN_FAILURE_MODE Attribute.

Change Display and Description as Failure Mode.

Select Type as Referenced to Class and add Reference to PFAILURE_MODE under FMEA Library



The screenshot shows the SMARTeam Data Model Designer interface. On the left, a tree view lists various attributes under the FMEA Header, including Result serious rate, Result Occurrence rate, Result Detection rate, Result RPN, Result Action Comment, Special, Function, Product Category, Current control, Failure Mode, Failure Effect, and Failure Cause. The 'Failure Mode' attribute is selected. The main 'Definition' window on the right contains the following fields:

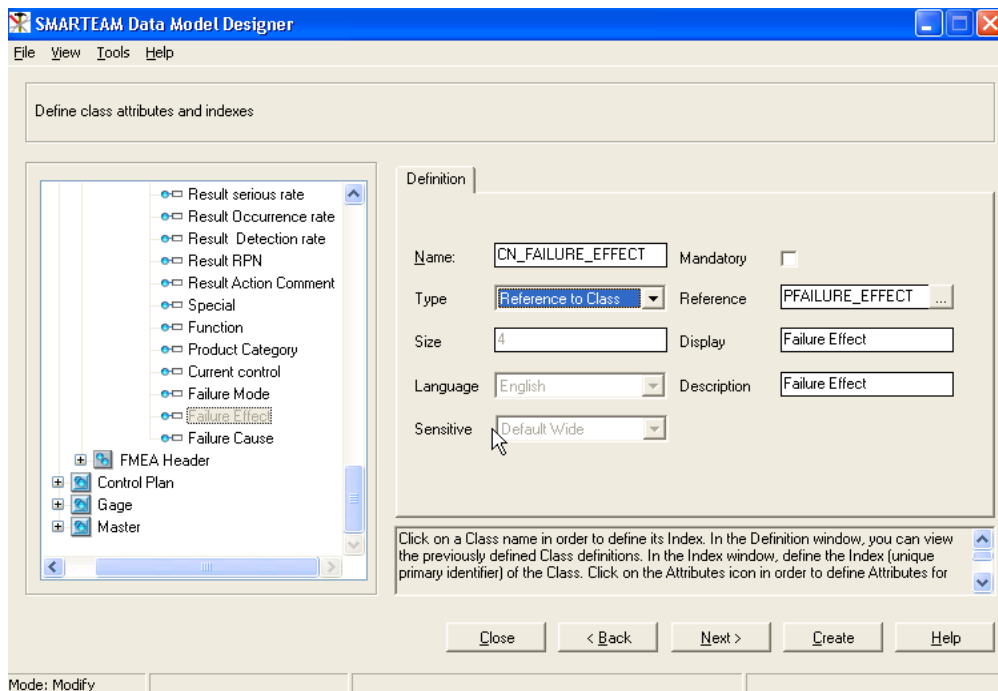
- Name: CN_FAILURE_MODE
- Mandatory: ☐
- Type: Reference to Class
- Reference: PFAILURE_MODE
- Size: 4
- Display: Failure Mode
- Language: English
- Description: Failure Mode
- Sensitive: Default Wide

At the bottom of the Definition window, there is a note: "Click on a Class name in order to define its Index. In the Definition window, you can view the previously defined Class definitions. In the Index window, define the Index (unique primary identifier) of the Class. Click on the Attributes icon in order to define Attributes for". Below the note are buttons for Close, < Back, Next >, Create, and Help.

32. Select CN_FAILURE_EFFECT Attribute.

Change Display and Description as Failure Effect.

Select Type as Referenced to Class and add Reference to PFAILURE_EFFECT under FMEA Library



The screenshot shows the SMARTeam Data Model Designer interface. On the left, a tree view lists various attributes under the FMEA Header, including Result serious rate, Result Occurrence rate, Result Detection rate, Result RPN, Result Action Comment, Special, Function, Product Category, Current control, Failure Mode, Failure Effect, and Failure Cause. The 'Failure Effect' attribute is selected. The main 'Definition' window on the right contains the following fields:

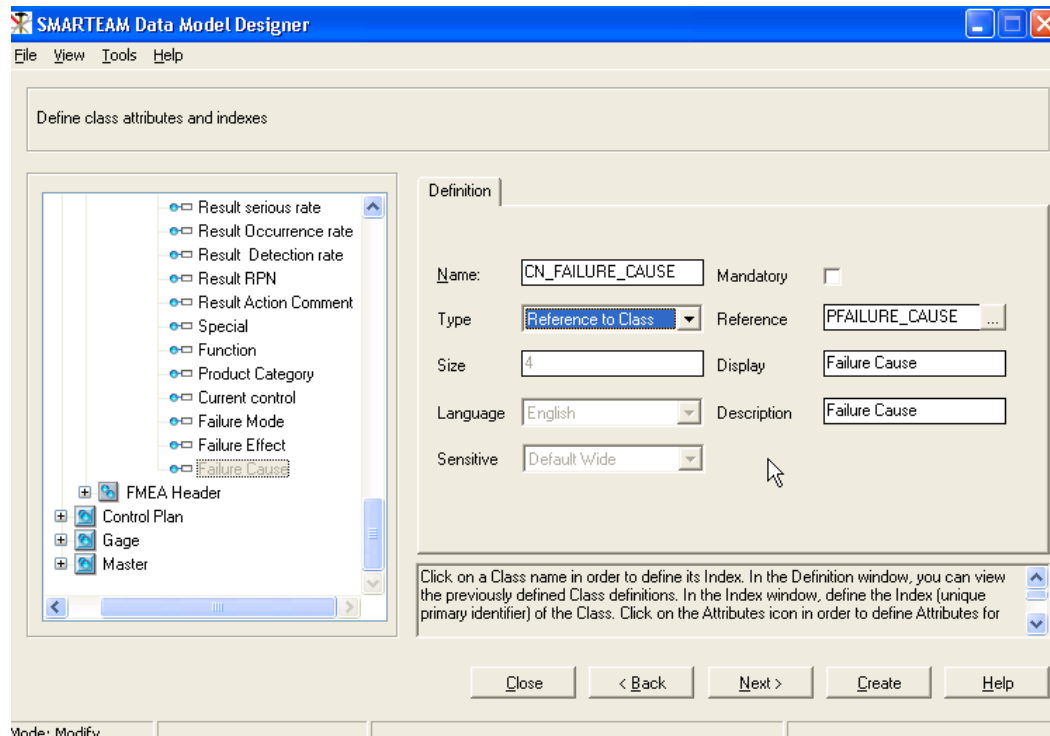
- Name: CN_FAILURE_EFFECT
- Mandatory: ☐
- Type: Reference to Class
- Reference: PFAILURE_EFFECT
- Size: 4
- Display: Failure Effect
- Language: English
- Description: Failure Effect
- Sensitive: Default Wide

At the bottom of the Definition window, there is a note: "Click on a Class name in order to define its Index. In the Definition window, you can view the previously defined Class definitions. In the Index window, define the Index (unique primary identifier) of the Class. Click on the Attributes icon in order to define Attributes for". Below the note are buttons for Close, < Back, Next >, Create, and Help.

33. Select CN_FAILURE_CAUSE Attribute.

Change Display and Description as Failure Cause.

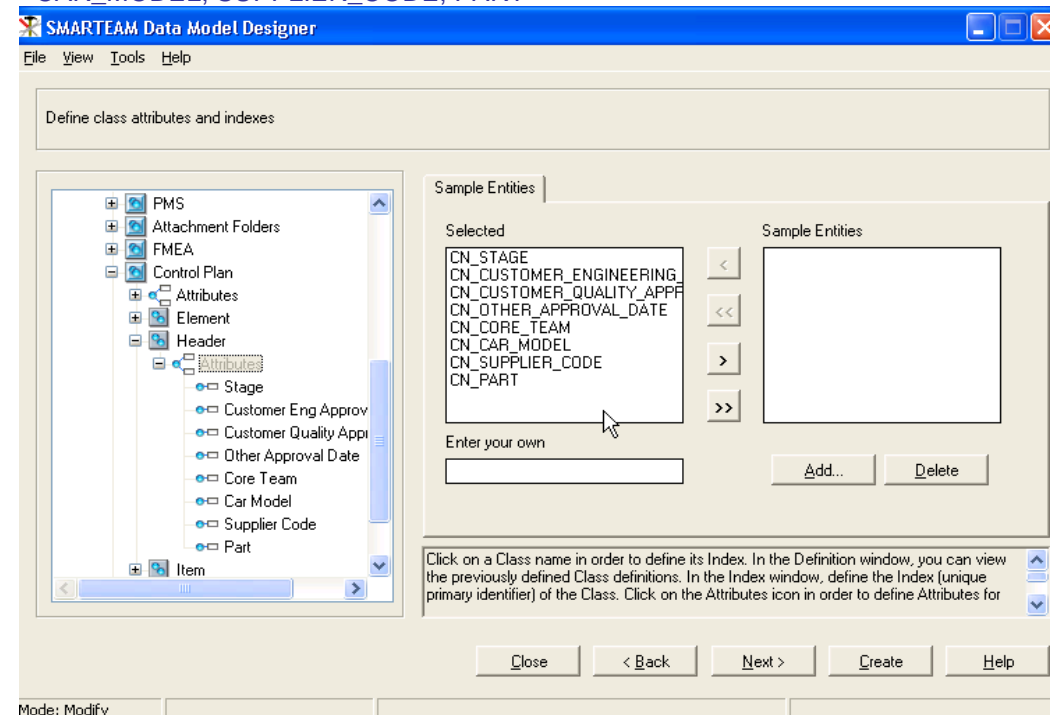
Select Type as Referenced to Class and add Reference to PFAILURE_ CAUSE under FMEA Library



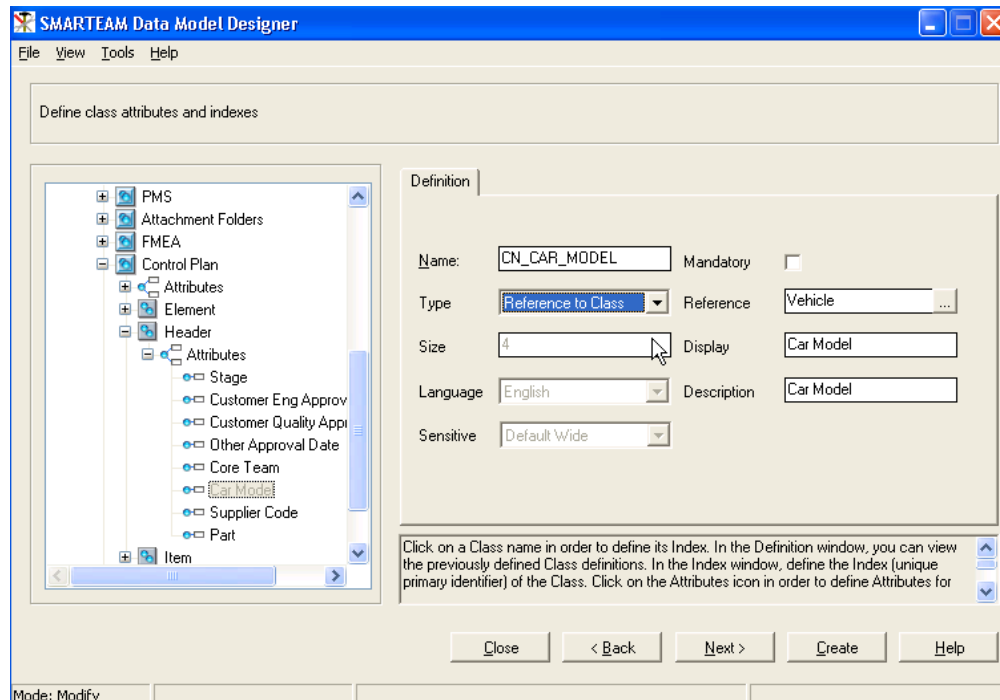
34. Select Header subclass under Control Plan class.

Add three attributes on Header.

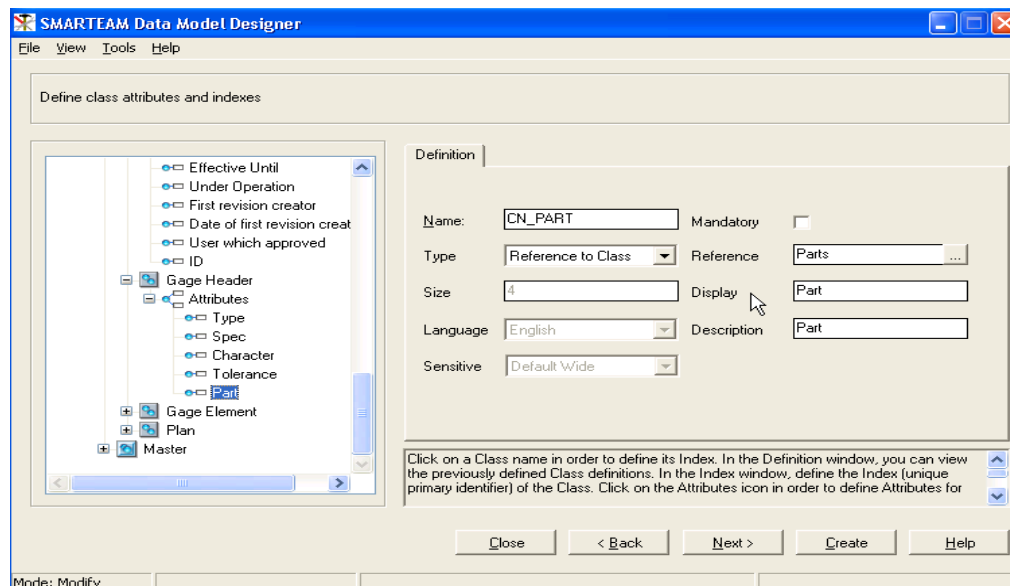
CAR_MODEL, SUPPLIER_CODE, PART



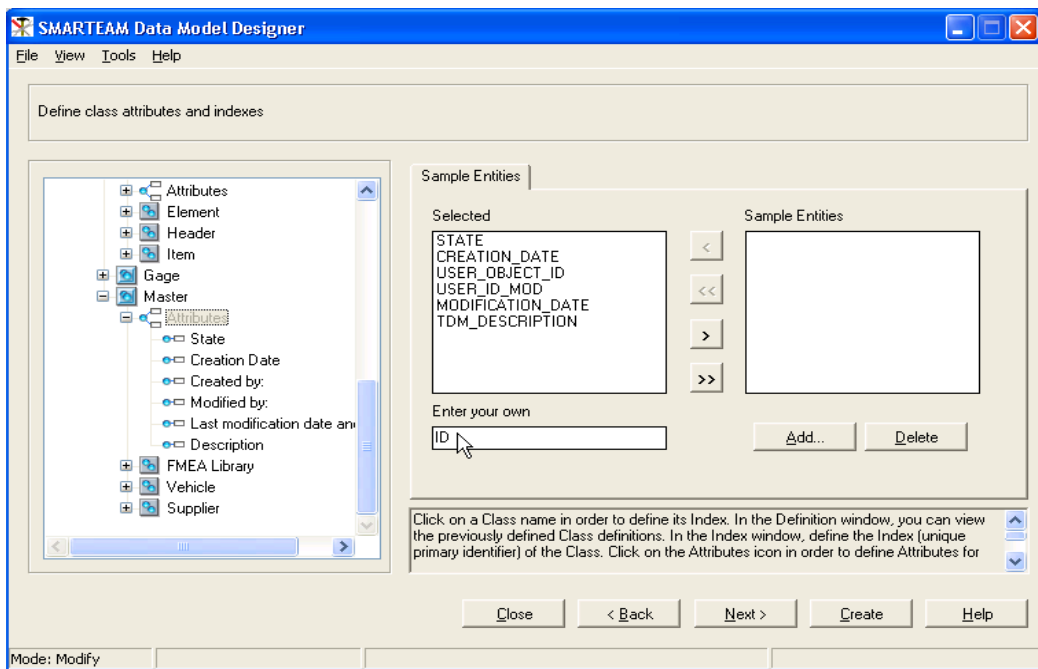
35. Select CN_CAR_MODEL Attribute.
Change Display and Description as Car Model.
Select Type as Referenced to Class and add Reference to Vehicle under Master class



36. Select CN_SUPPLIER_CODE Attribute.
Change Display and Description as Supplier code.
Select Type as Referenced to Class and add Reference to Vehicle under Master class
37. Similarly select CN_PART attribute.
Change Display and Description as Part.
Select Type as Referenced to Class and add Reference to Parts in class hierarchy.
38. Select Gage Header class under Gage Class and "Part" attribute.
Change Display and Description as Part.
Select Type as Referenced to Class and add Reference to class Parts

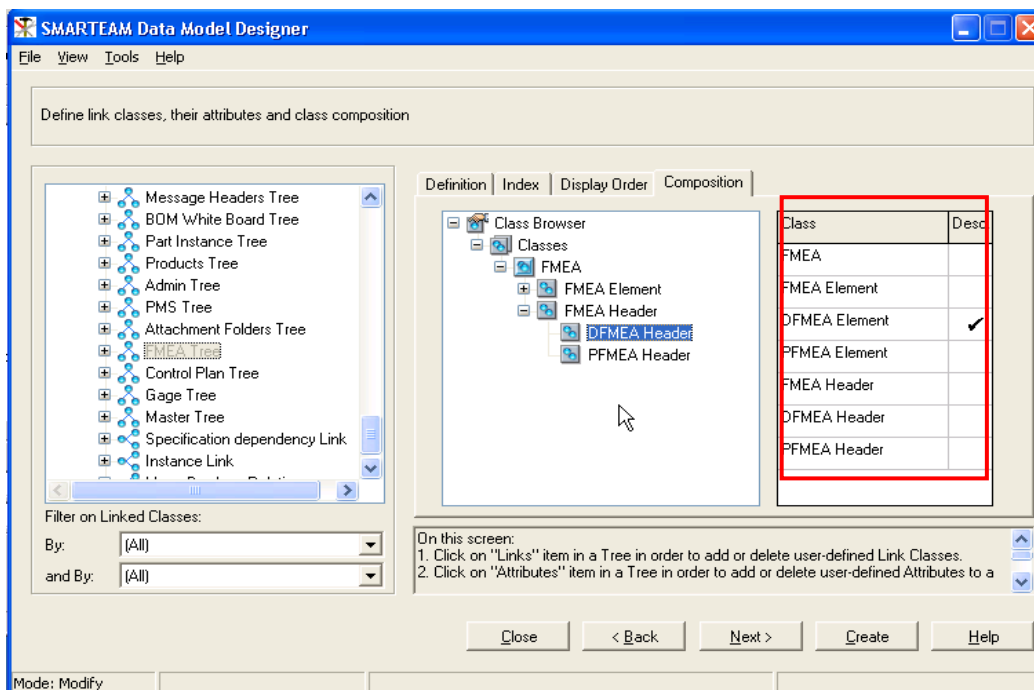


39. Select Master Class. Add an attribute “ID”.

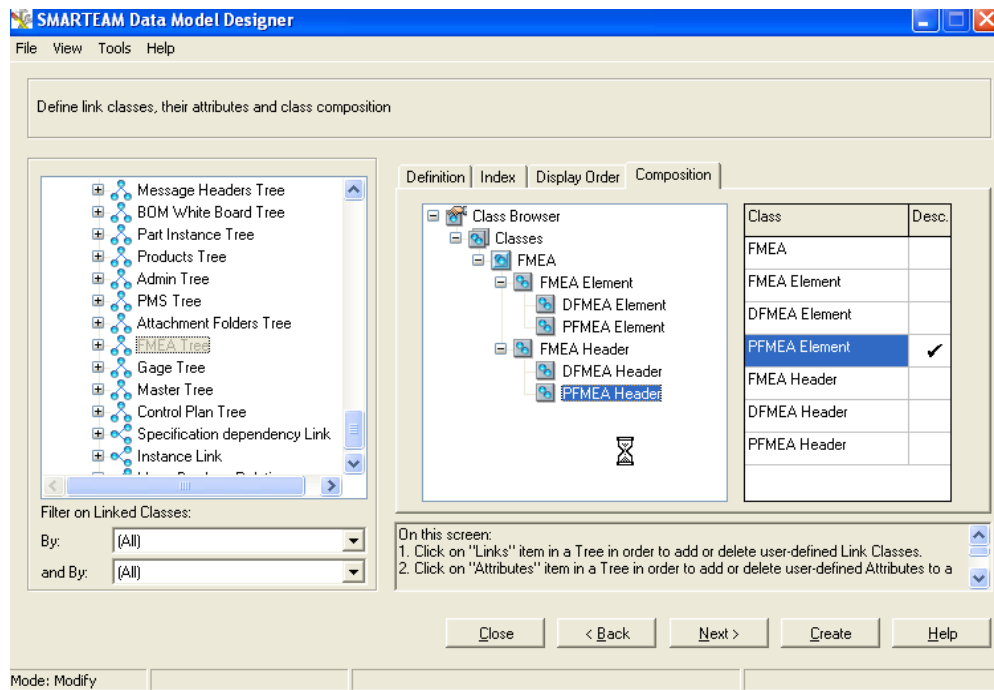


Click on next.

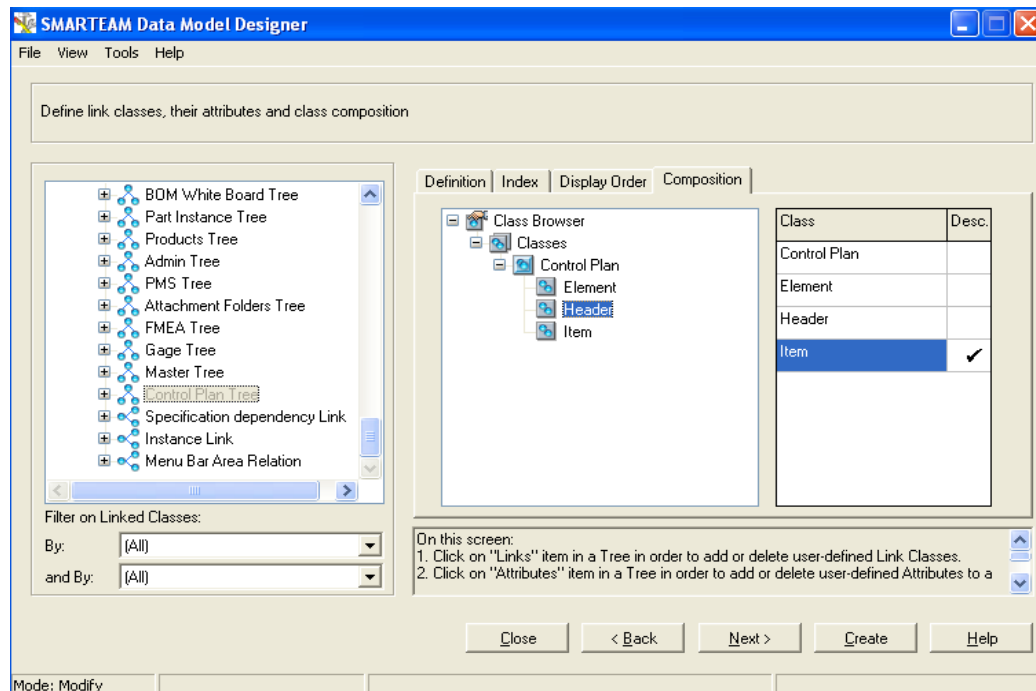
40. Select FMEA Tree and click on Composition tab. In Right Panel we see a FMEA tree structure. Here select DFMEA Header. Now we can see “Class and Desc” table. Check before DFMEA Element



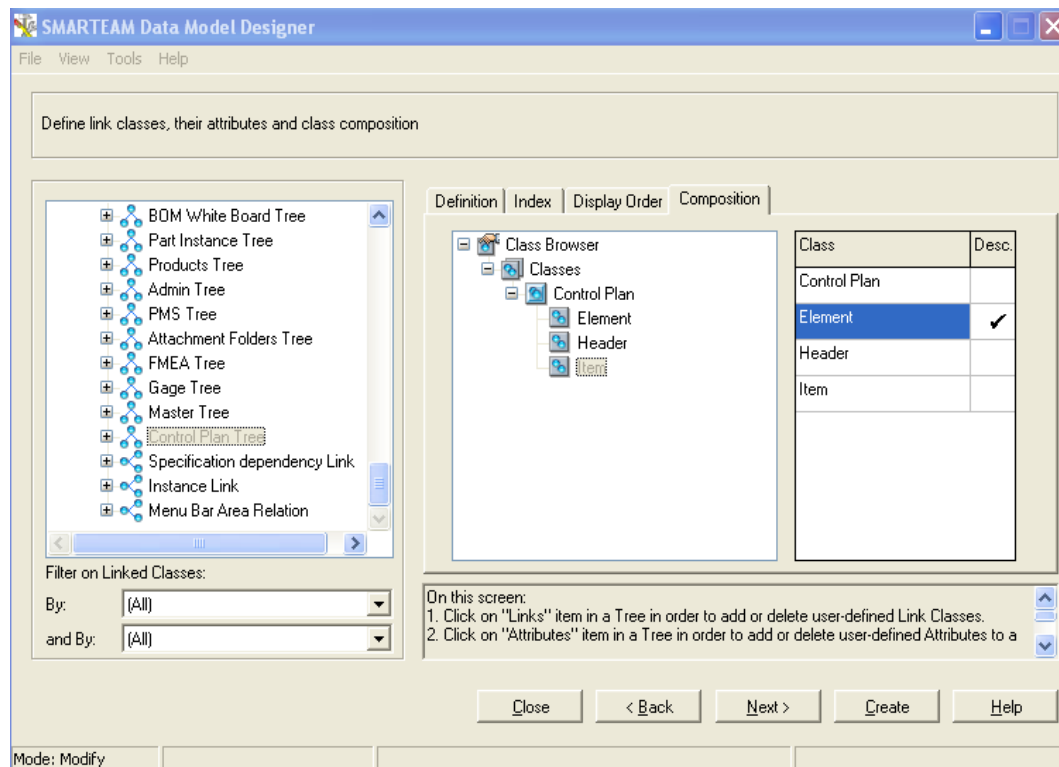
41. Select PFMEA Header. Check before PFMEA Element



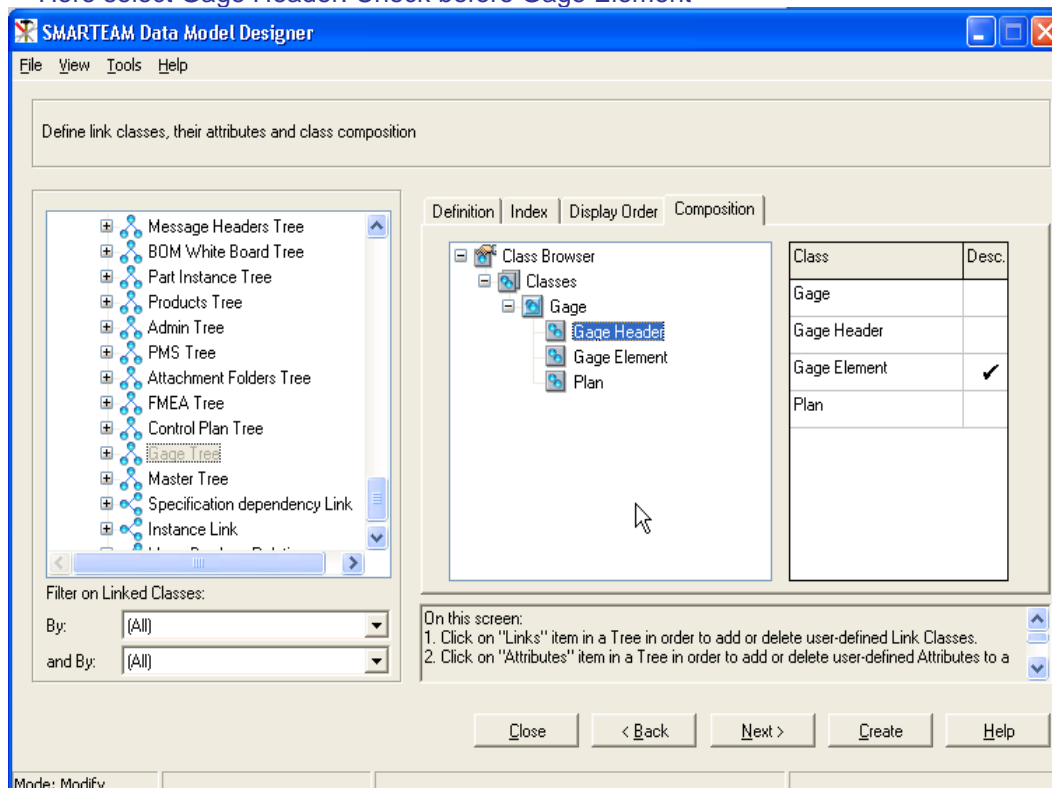
42. Select Control Plan Tree. In Right Panel we see a Control Plan tree structure. Here select Header. Check before Item



43. Select Item. Now Check before Element

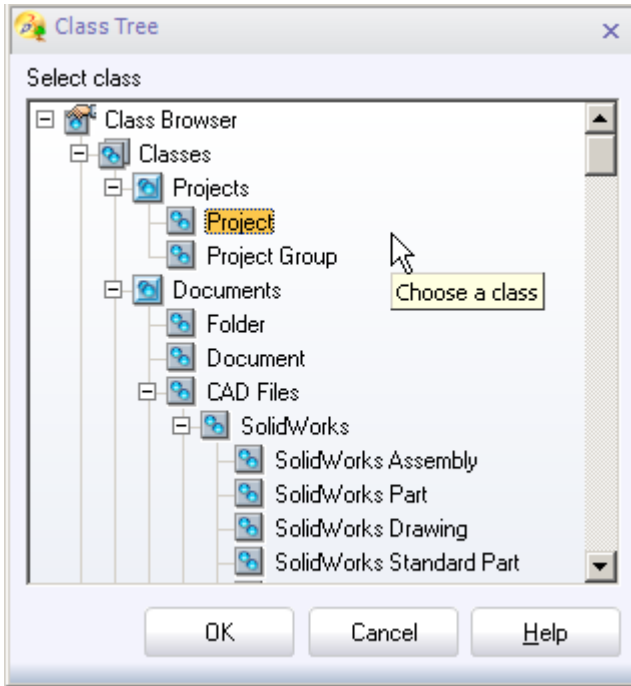


44. Select Gage Tree. In Right Panel we see a Gage tree structure. Here select Gage Header. Check before Gage Element



• Modifying Profile Cards

Open the Web Form Designer using SmarTeam->Administrator Tools->Admin console.
Select the Project class from the Class Browser and click OK.

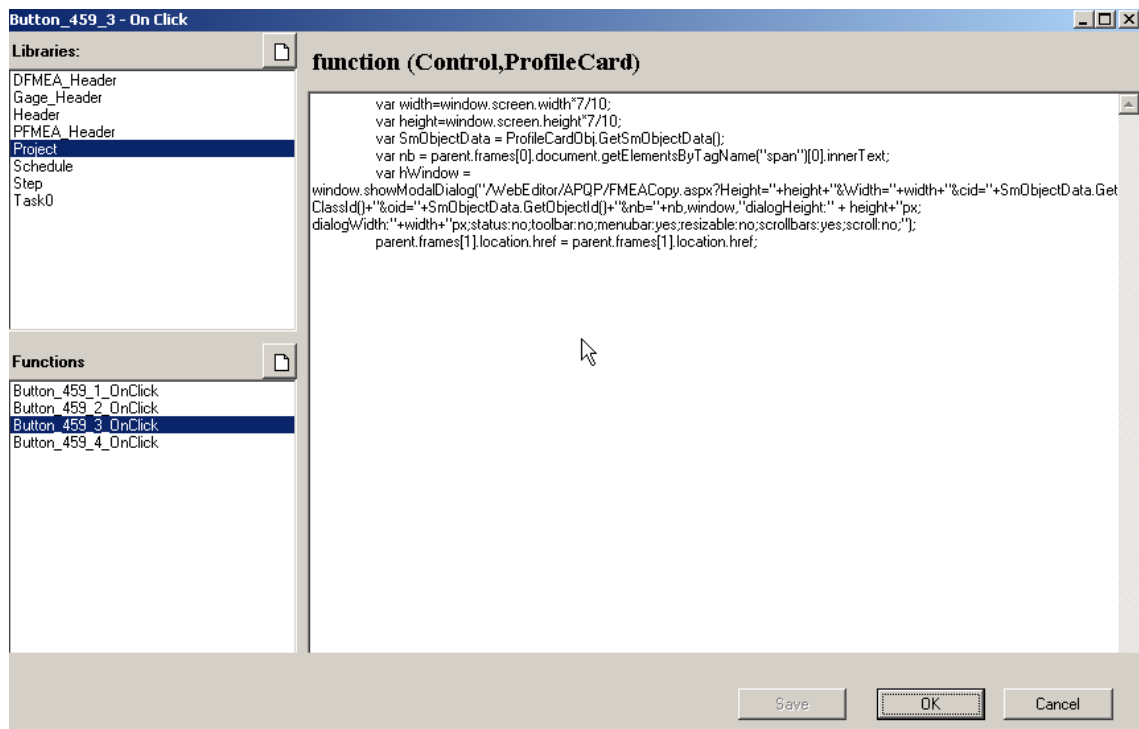


Add two buttons “**FMEA copy**” and “**ControlPlan Copy**” in the project profile card.

General			
Project			
Project ID:	<input type="text"/>		
Description:	<input type="text"/>		
<input type="checkbox"/> Template			
General Info			
<input type="button" value="Team Members"/>		<input type="button" value="Project Copy"/>	
<input type="button" value="FMEA Copy"/>		<input type="button" value="Control Plan Copy"/>	
Priority:	<input type="text"/>	Completed:	<input type="text"/>
Risk:	<input type="text"/>		
Budget:	<input type="text"/>	Actual Cost:	<input type="text"/>
Currency:	<input type="text"/>		
Comments	<input type="text"/>		
Details			
		Calendar Type:	<input type="text"/>
Planned		Actual	

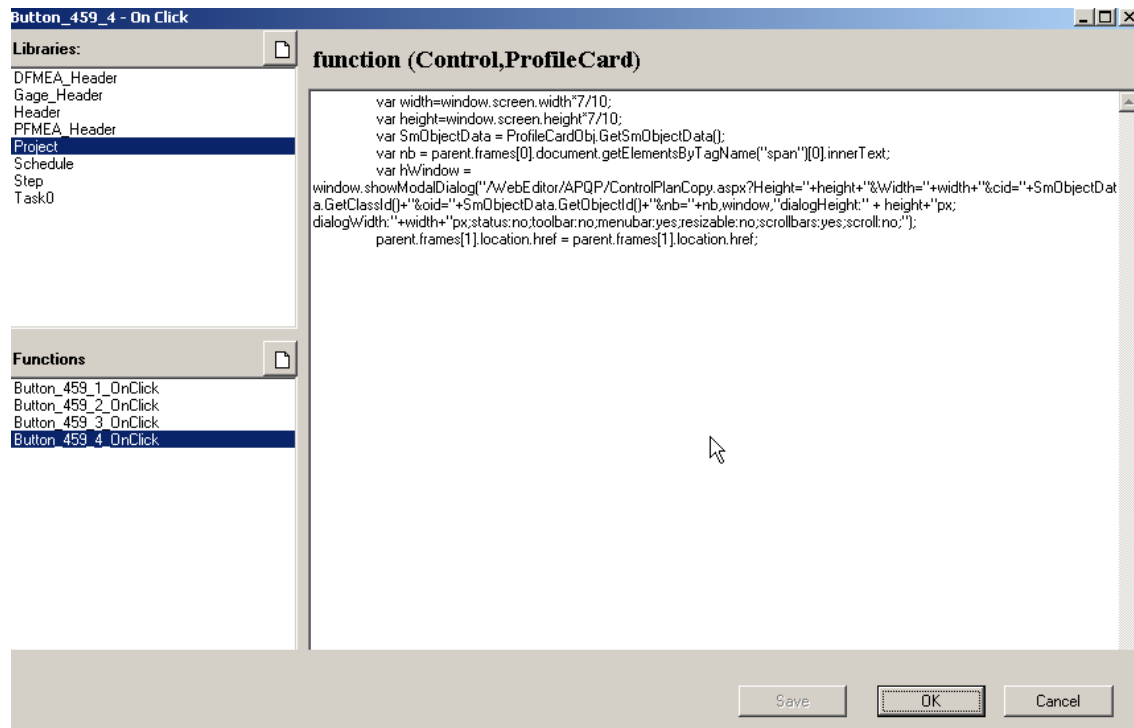
Add following java script for button **"FMEA copy"** at "On Click", visible in Modes "Update".

```
var width=window.screen.width*7/10;
var height=window.screen.height*7/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var
hWindow=window.showModalDialog("/WebEditor/APQP/FMEACopy.aspx?Height="+height+"&Width="+width+
&cid="+SmObjectData.GetClassId()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:"
+ height+"px; dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;scroll:no;");
parent.frames[1].location.href = parent.frames[1].location.href;
```

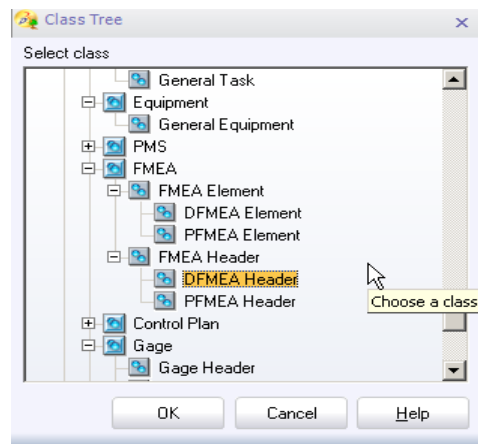


Add java script for button **"Controlplan copy"** at "On Click", visible in Modes "Update"

```
var width=window.screen.width*7/10;
var height=window.screen.height*7/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var
hWindow
window.showModalDialog("/WebEditor/APQP/ControlPlanCopy.aspx?Height="+height+"&Width="+width+"&cid="+S
mObjectData.GetClassId()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;scroll:no;");
parent.frames[1].location.href = parent.frames[1].location.href;
```

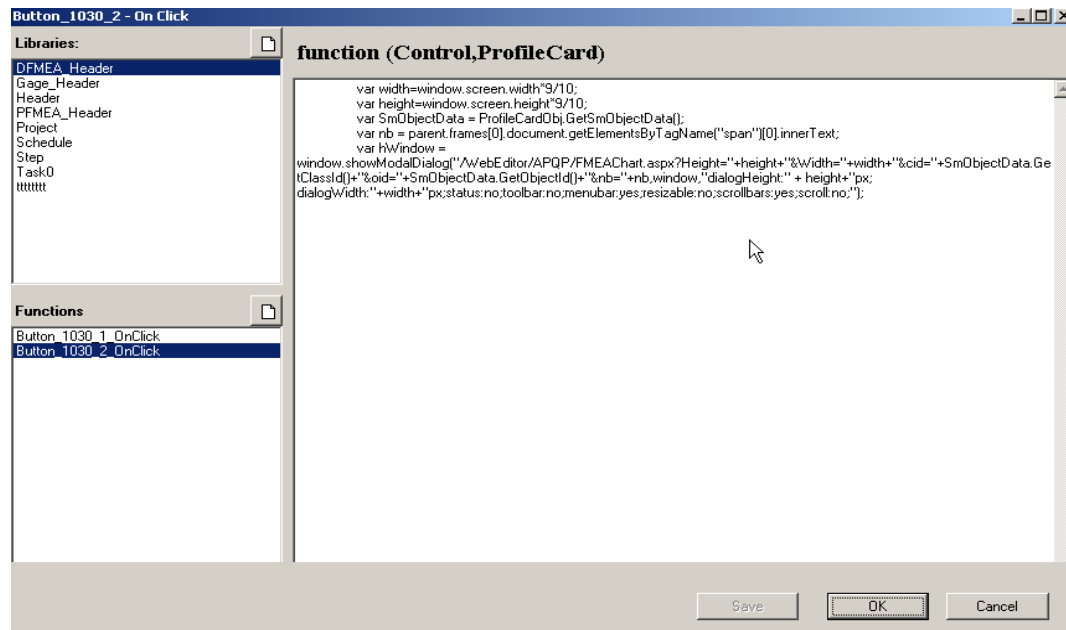


Modify profile card of “**DFMEA Header**” under FMEA class. Add two buttons “chart” and “Report”



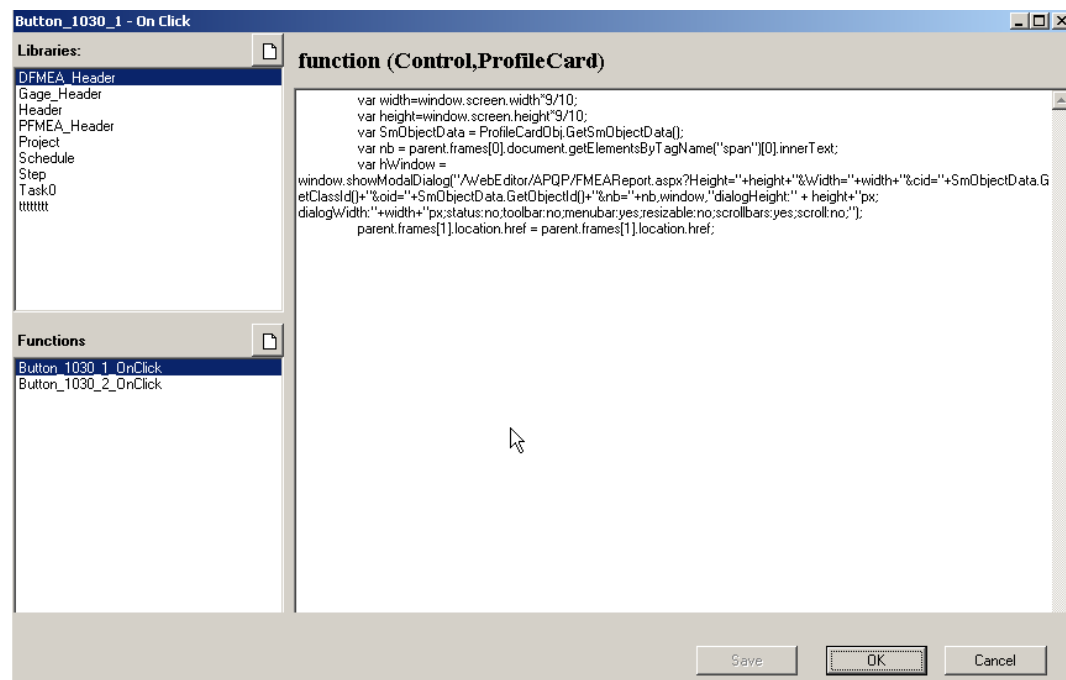
Add java script for button “**Chart**” at “On Click”, visible in Modes “Update”

```
var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow
window.showModalDialog("/WebEditor/APQP/FMEACHart.aspx?Height="+height+"&Width="+width+"&cid="+SmObjectData.GetClassId()+
"&oid="+SmObjectData.GetObjectId()+
"&nb="+nb,window,"dialogHeight:"+height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;scroll:no;");
```

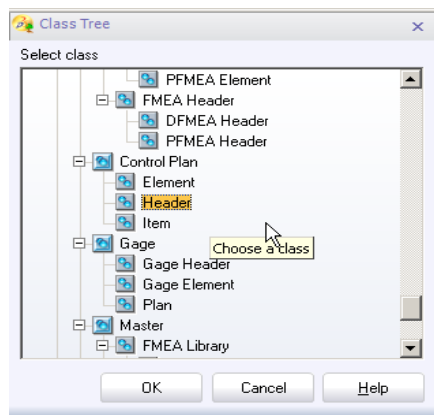


Add java script for button “**Report**” at “On Click”, visible in Modes “Update”

```
var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow
window.showModalDialog("/WebEditor/APQP/FMEARReport.aspx?Height="+height+"&Width="+width+"&cid="+SmObjectData.GetClassId()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:" + height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;scroll:no;");
parent.frames[1].location.href = parent.frames[1].location.href;
```

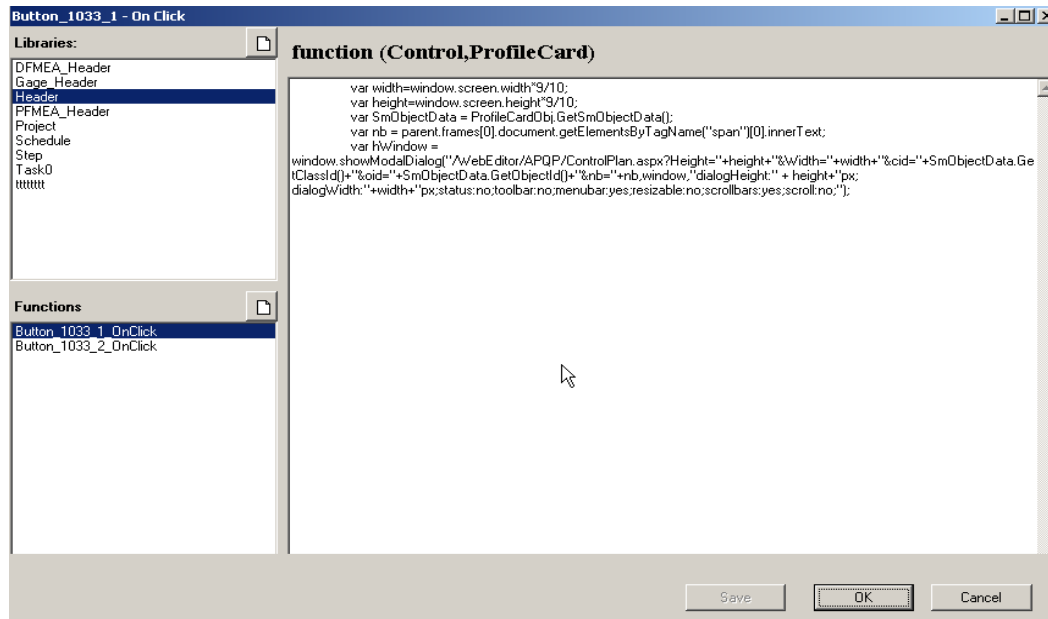


Modify profile card of “Header” under Control Plan class. Add two buttons: Edit and Export



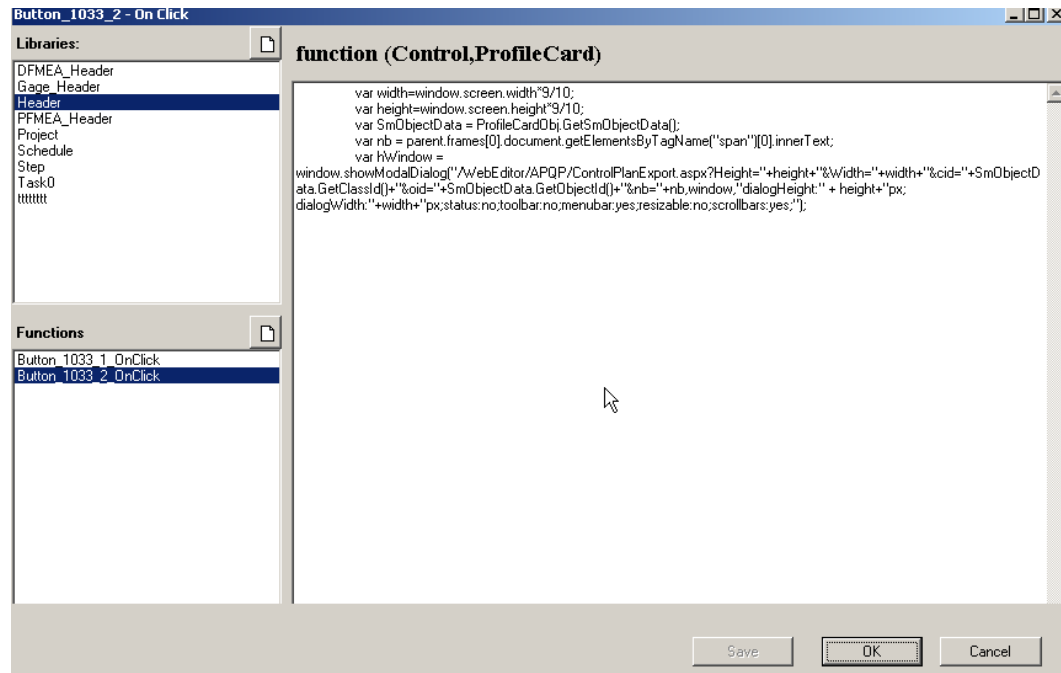
Add java script for button “Edit” at “On Click”, visible in Modes “Update”

```
var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow =
window.showModalDialog("/WebEditor/APQP/ControlPlan.aspx?Height="+height+"&Width="+width+"&cid="+SmObjectData.GetClassId()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:"+height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;scroll:no;");
```



Add java script for button “**Export**” at “On Click”, visible in Modes “Update”

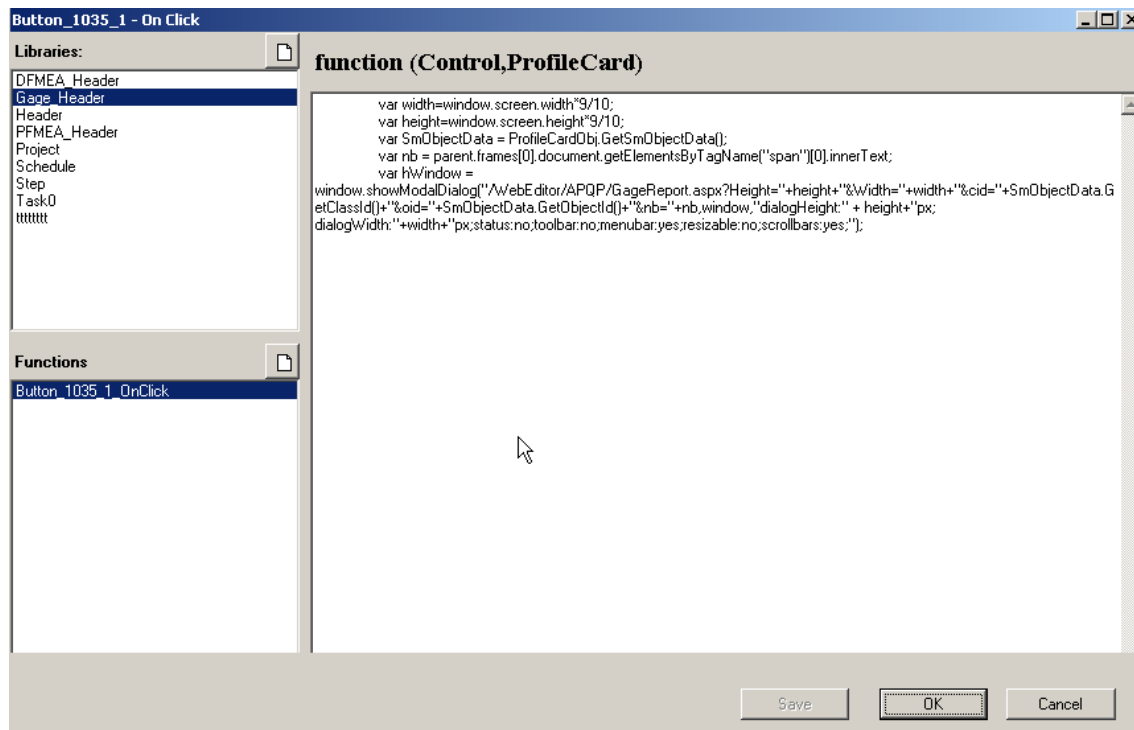
```
var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow
window.showModalDialog("/WebEditor/APQP/ControlPlanExport.aspx?Height="+height+"&Width="+width+"&cid="+
SmObjectData.GetClassId()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:"
height+"px; dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");
```



Modify profile card of “**Header**” under Gage class. Add “Report” button.

Add java script for button “**Report**” at “On Click”, visible in Modes “Update”

```
var width=window.screen.width*9/10;
var height=window.screen.height*9/10;
var SmObjectData = ProfileCardObj.GetSmObjectData();
var nb = parent.frames[0].document.getElementsByTagName("span")[0].innerText;
var hWindow
window.showModalDialog("/WebEditor/APQP/GageReport.aspx?Height="+height+"&Width="+width+"&cid="+SmOb
jectData.GetClassId()+"&oid="+SmObjectData.GetObjectId()+"&nb="+nb,window,"dialogHeight:"
+ height+"px;
dialogWidth:"+width+"px;status:no;toolbar:no;menubar:yes;resizable:no;scrollbars:yes;");
```

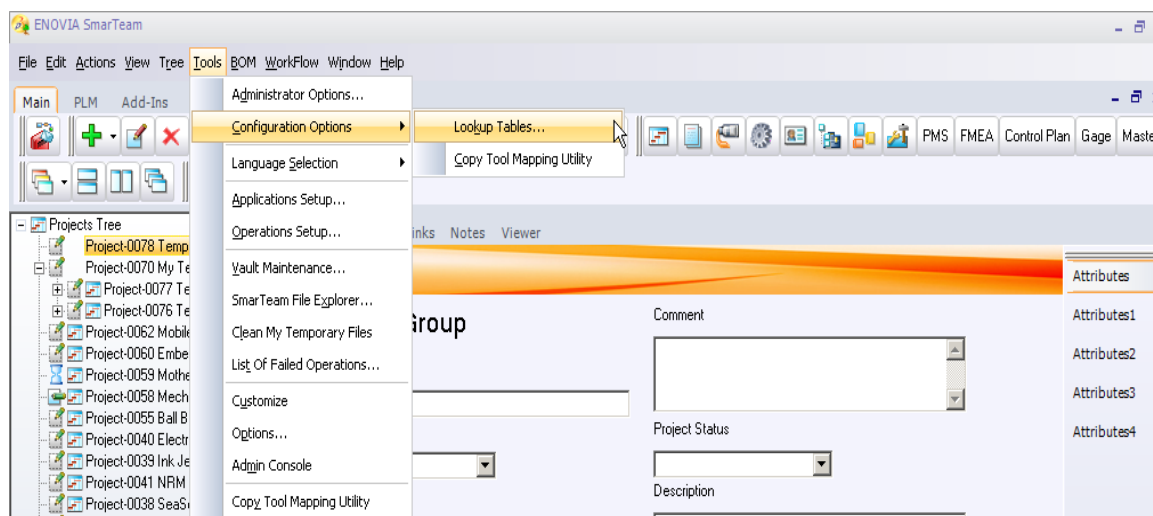


Click on the “Create” button to create the database after all these steps are done.

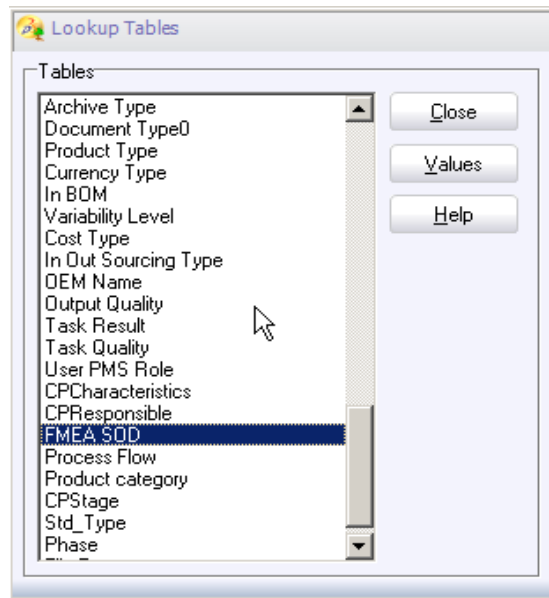
45. Adding Lookup table values

Launch SmarTeam Editor.

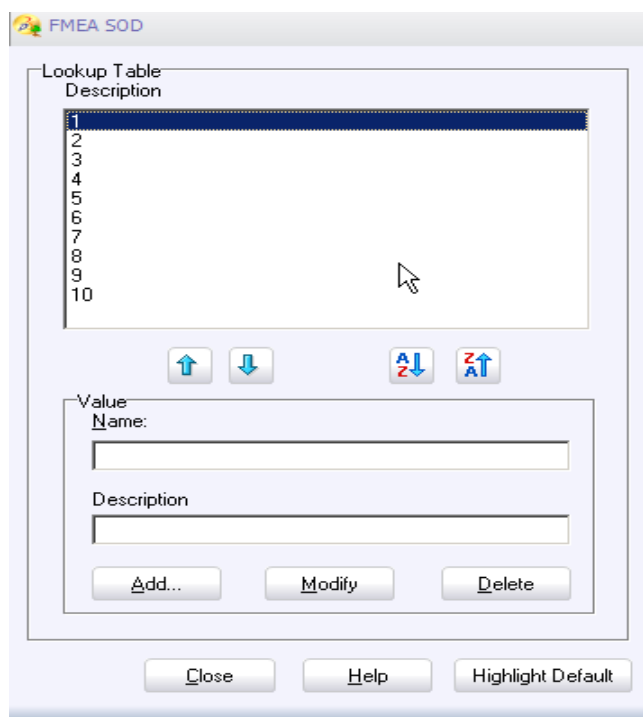
Go to Tools -> Configuration Options -> Lookup Tables



Select the “FMEA SOD” Lookup table from the list and click on values button to add values.



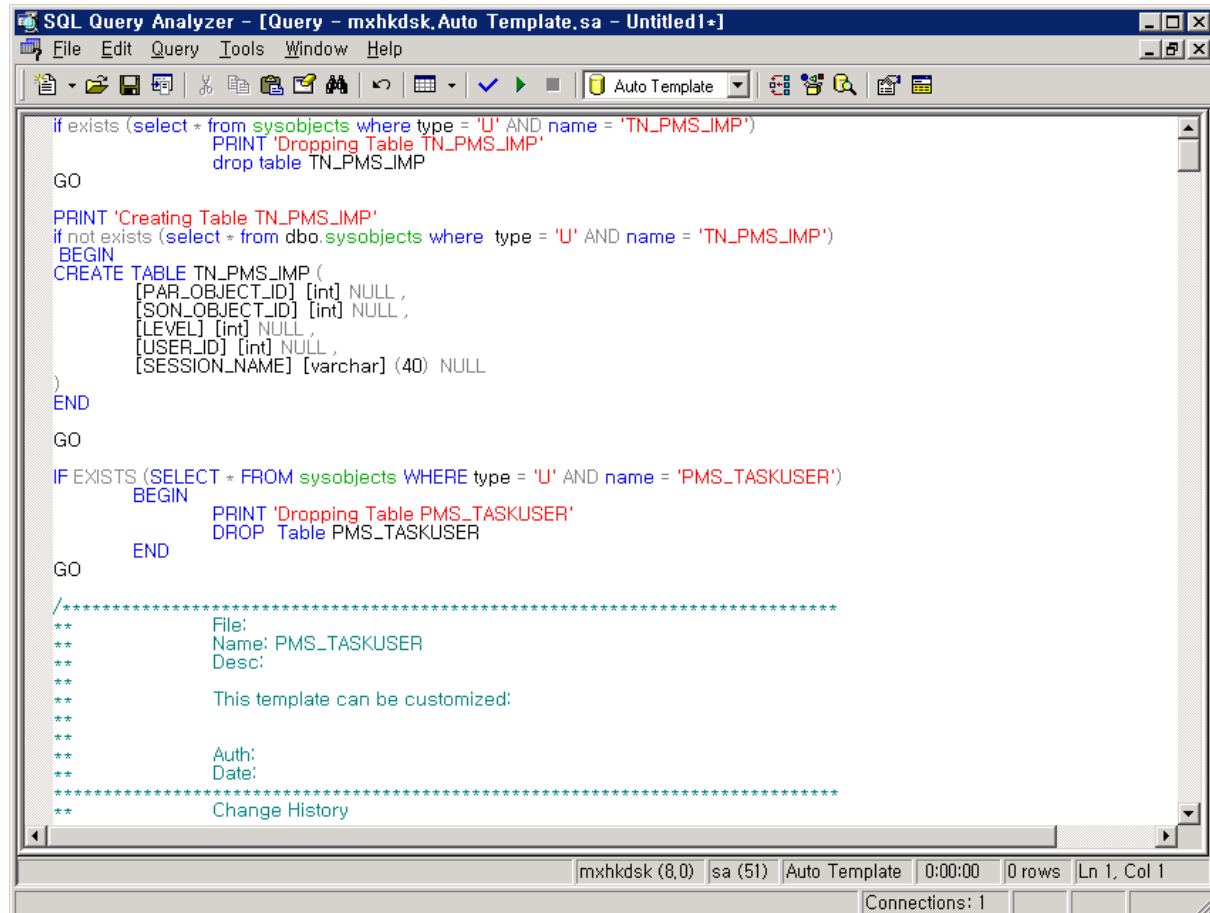
Add values 1 to 10.



1. SQL Scripts

Run ScriptAll.sql to make tables and stored procedures. As SQL user SMARTEAM, run this procedure in SQL Query Analyzer

Please run it in MS SQL Query Analyzer **on target database** to create store procedure/functions.



```

SQL Query Analyzer - [Query - mxhkdsk.Auto Template.sa - Untitled1-]
File Edit Query Tools Window Help
Auto Template

if exists (select * from sysobjects where type = 'U' AND name = 'TN_PMS_IMP')
    PRINT 'Dropping Table TN_PMS_IMP'
drop table TN_PMS_IMP

GO

PRINT 'Creating Table TN_PMS_IMP'
if not exists (select * from dbo.sysobjects where type = 'U' AND name = 'TN_PMS_IMP')
    BEGIN
    CREATE TABLE TN_PMS_IMP (
        [PAR_OBJECT_ID] [int] NULL ,
        [SON_OBJECT_ID] [int] NULL ,
        [LEVEL] [int] NULL ,
        [USER_ID] [int] NULL ,
        [SESSION_NAME] [varchar] (40) NULL
    )
    END
GO

IF EXISTS (SELECT * FROM sysobjects WHERE type = 'U' AND name = 'PMS_TASKUSER')
    BEGIN
        PRINT 'Dropping Table PMS_TASKUSER'
        DROP Table PMS_TASKUSER
    END
GO

/*****
**      File:
**      Name: PMS_TASKUSER
**      Desc:
**
**      This template can be customized:
**
**
**      Auth:
**      Date:
**
*****/
**      Change History

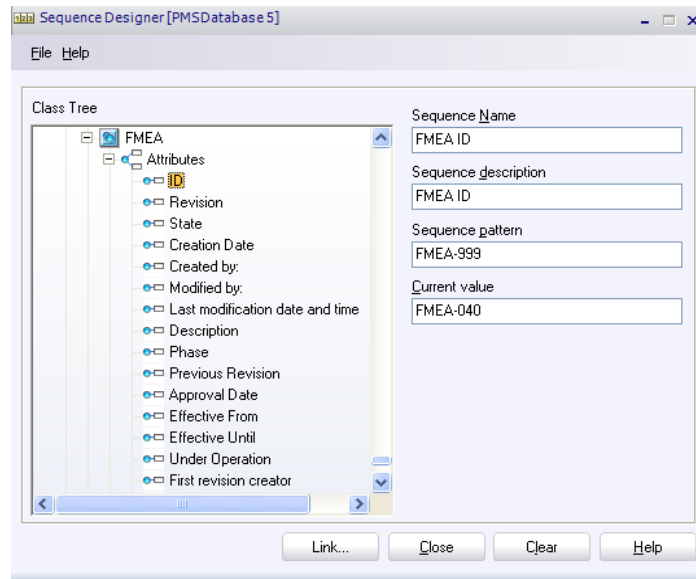
```

mxhkdsk (8,0) sa (51) Auto Template 0:00:00 0 rows Ln 1, Col 1
Connections: 1

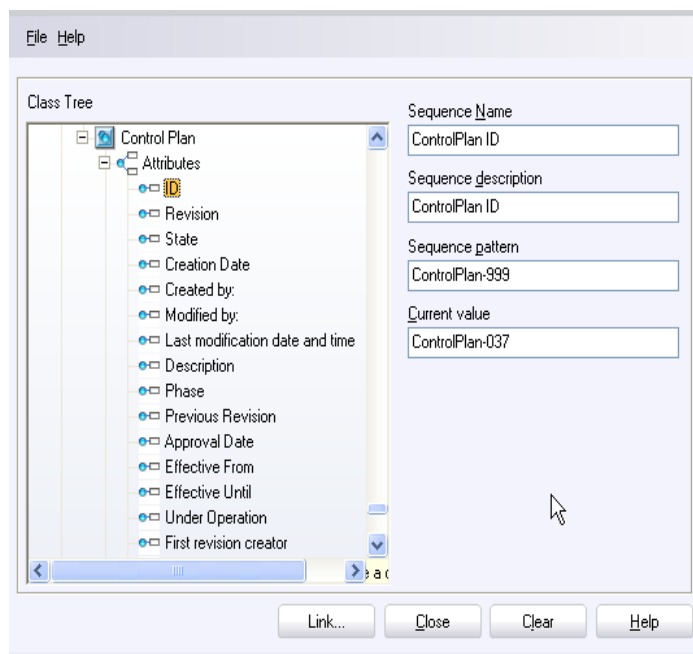
2. Sequence Designer

Add Sequence for FMEA, Control Plan, Master and Gage classes same as those Sequence name in Ds.Bpc.APQP.config.xml file.

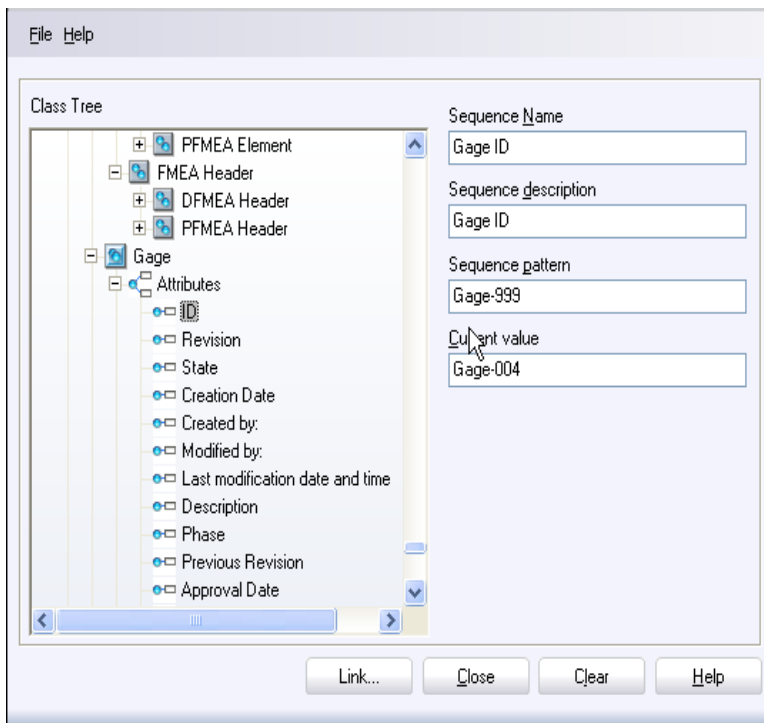
1. Launch SMARTEAM Sequence Designer from admin console..
2. Add sequence name "FMEA ID" for ID attribute of FMEA class



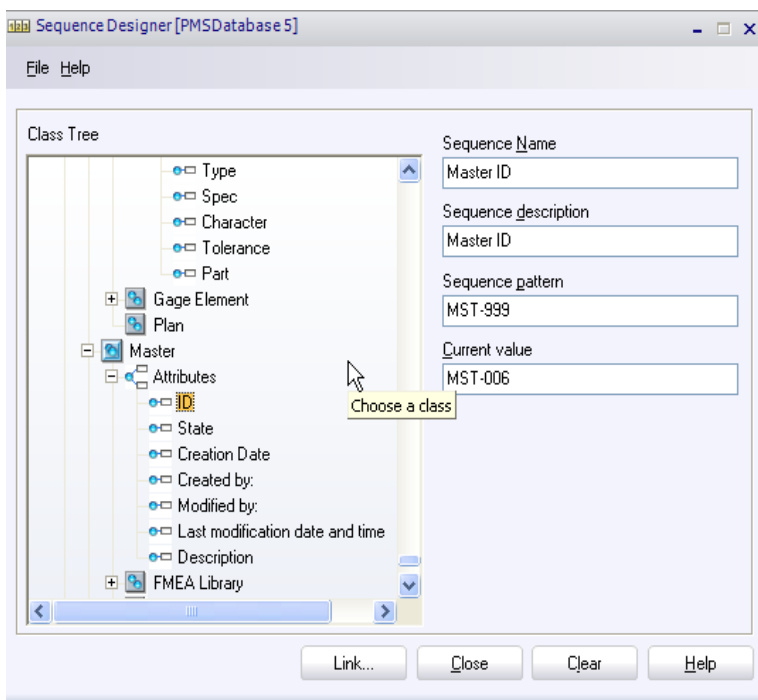
3. Add sequence name "ControlPlan ID" for Control Plan ID attribute.



4. Add sequence name “Gage ID” for Gage ID attribute.



5. Add sequence name “Master ID” for Master ID attribute.

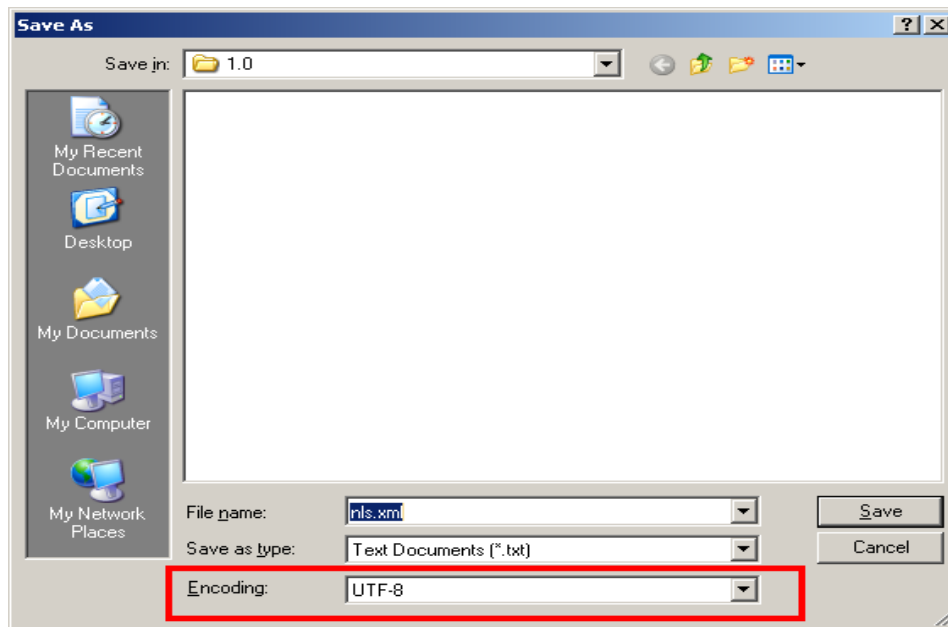


6. NLS Settings

Put your English NLS files into selected language's NLS directory:

- <SmarTeam Directory>\NLS\<language code>\Std\Controls\
Ds.Bpc.NLS.Controls.APQP\1.0\nls.xml

Please edit the nls.xml by notepad, and make sure the encoding is “**UTF-8**” if you use double byte language like “zh-tw”.



Please do “**IISRESET**” if you modify the content of NLS.xml