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Collaborative Systems Engineering

- RX9 - CD9 –CS9 – RM9 –

Data Model Documentation – V1

BPA Delivery 6 for V5R19 (V5.6)

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Modification Tracking

Version	Date	Done by	Modification
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1. Introduction

That guide aims to provide all the information so as to be able to build a CSE (Collaborative System Engineering) data model from any ENOVIA SmarTeam DB. Nonetheless since new limitations regarding attributes naming appeared with ENOVIA SmarTeam R18SP2, it is no more possible to create all the requested attributes from ENOVIA SmarTeam Data Model Designer tool. A workaround exists, perform the database customization using any R17 version and then migrate to R19 GA.

1.1. Related Documentation

- Collaborative Systems Engineering – License Use Management (CSE_licenseUseManagement_R19D6.doc)
- Collaborative Systems Engineering – Requirement Management Implementation guide (RM9_ImplementationGuide_R19D6.doc)
- Collaborative Systems Engineering – Requirement Management User guide (RM9_UserGuide_R19D6.doc)

- ENOVIA SmarTeam – V5R18 Hardware and Software Requirements

- ENOVIA SmarTeam - Editor Installation Guide
- ENOVIA SmarTeam - Editor Administrator Guide
- ENOVIA SmarTeam - Editor User Guide

- ENOVIA SmarTeam - Foundation Installation Guide
- ENOVIA SmarTeam - Foundation Administrator Guide
- ENOVIA SmarTeam - Foundation User Guide

1.2. Definitions

Glossary

Acronym	Definition
BPA	Business Process Accelerator
CSE	Collaborative System Engineering
CD9	Composite Document Generation
CS9	Collaborative Systems Management and Trceability
RM9	Requirement Management
RX9	Requirement XML Edition
IVVQ	Integration Verification Validation Qualification

Table 1 - Acronyms

…

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2. Collaborative Systems Engineering Data Model Configuration Process

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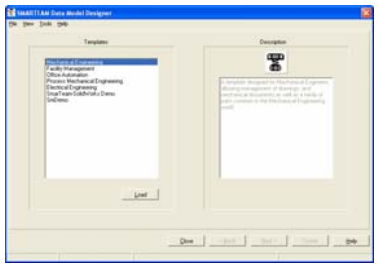
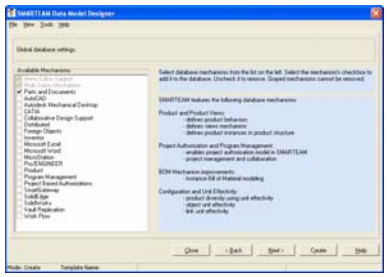
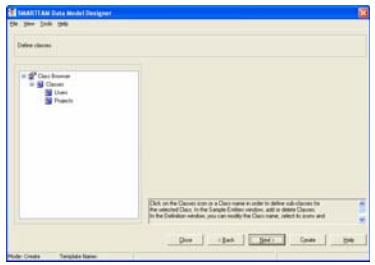
1st step : Create a new data model or modify an existing data model



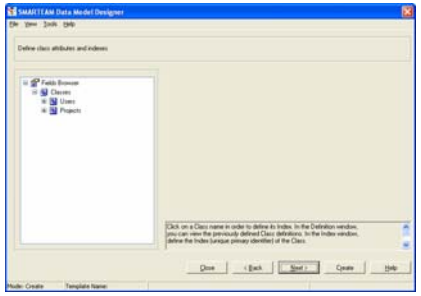
2nd step : Add database mechanisms



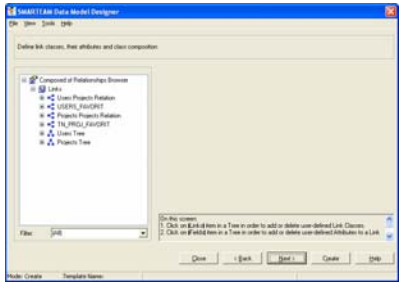
3rd step : Add classes



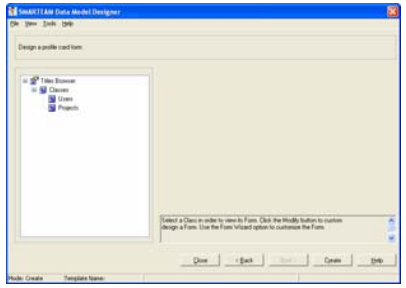
4th step : Add attribute on the classes



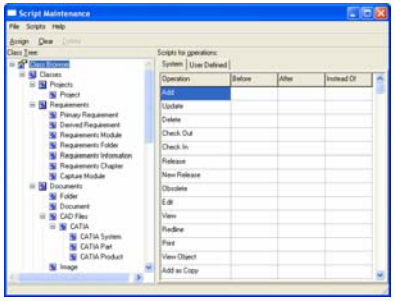
5th step : Customize the links



6th step : Configure the profile cards



7th step : Hook the scripts



8th step : Set up other parameters

9th step : Check the parameters

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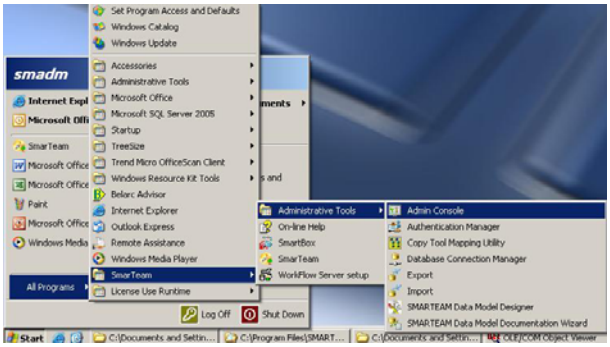
3. 1st step : Create a new data model or modify an existing data model

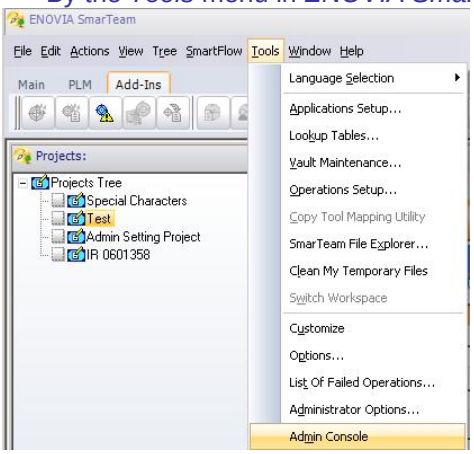
1. For launching the different tools, first of all, you have to execute *Admin Console*.

You have two choices:

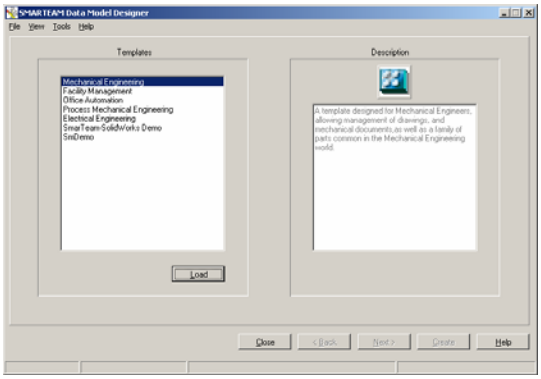
- By the Start menu :



- By the *Tools* menu in *ENOVIA SmarTeam* :



2. So as to implement CSE, you have to execute *ENOVIA SmarTeam Data Model Designer* :



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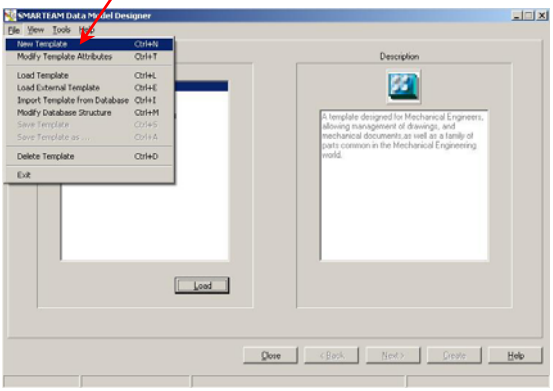
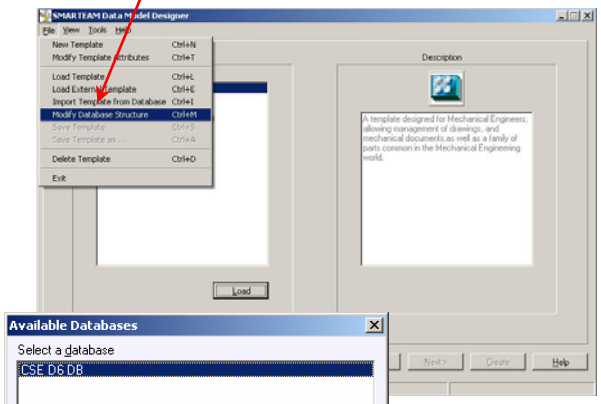
3. At this present time, you have two choices :

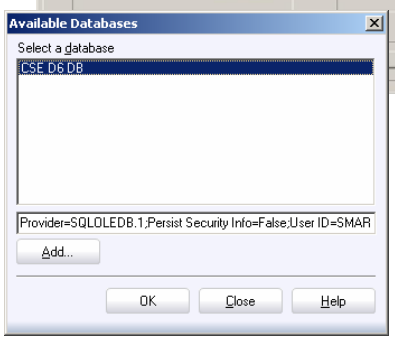
- Modify an existing data model ;
- Create a new data model.

Create a new data model

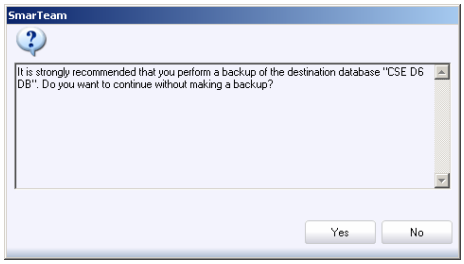


Modify an existing





Select the database and click OK



Yes

Login on the DB to modify

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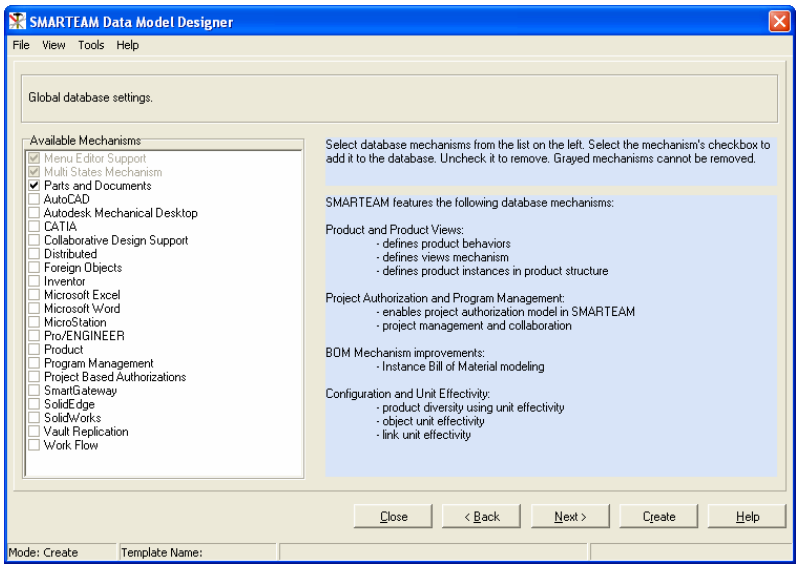
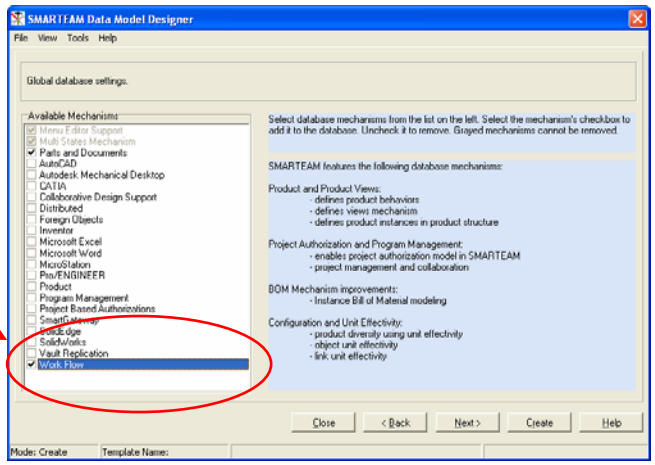
4. 2nd step : Set the database mechanisms



You have now to select the mechanisms which will be associated to the new database. The database mechanisms are ENOVIA SmarTeam functional modules. You just have to click on the checkboxes corresponding to the needed mechanisms.

NAME	DESCRIPTION
MENU EDITOR SUPPORT	Menu Editor Support
MESSAGE	Message
WORK FLOW	Work Flow
MICROSOFT EXCEL	Microsoft Excel
MICROSOFT WORD	Microsoft Word
CATIA	CATIA
MULTI STATES MECHANISM	Multi States Mechanism
PARTS AND DOCUMENTS	Parts and Documents
ROLES MANAGEMENT	Roles Management
PROJECT SECURITY	Project Based Authorizations



The above table makes a list of the needed database mechanisms.
Click on *Next*.

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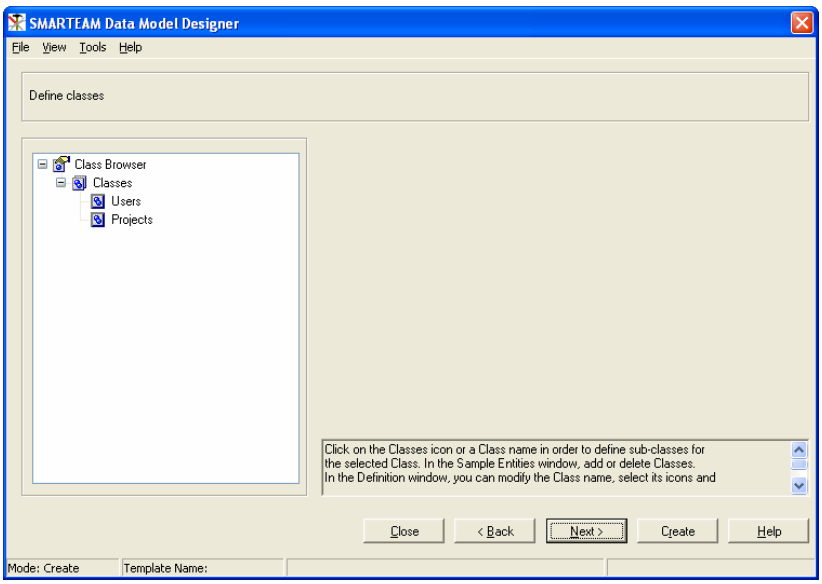
5. 3rd step : Add classes

The ENOVIA SmarTeam data model is mainly defined by a group of object classes. By default, in a ENOVIA SmarTeam data model there are two classes: *Users* and *Projects*.



The classes in a ENOVIA SmarTeam data model are organized in a class tree. The class trees are described in UML static structure.

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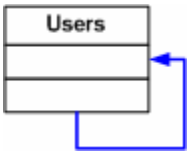
5.1. UML Static structure

Inheritance :

Composition :

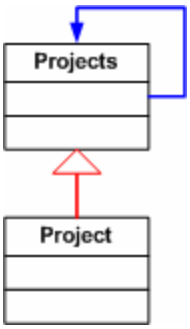
Users

Available for CSE_CMN (Collaborative System Lifecycle Management & Traceability), CSE_RM (Requirements Management), CSE_XML (Requirements XML Edition), CompositeDocGeneration (Composite Document) and CSE_HA (Collaborative System Lifecycle Management & Traceability) modules



Projects

Available for CSE_CMN (Collaborative System Lifecycle Management & Traceability), CSE_RM (Requirements Management), CSE_XML (Requirements XML Edition), CompositeDocGeneration (Composite Document) and CSE_HA (Collaborative System Lifecycle Management & Traceability) modules



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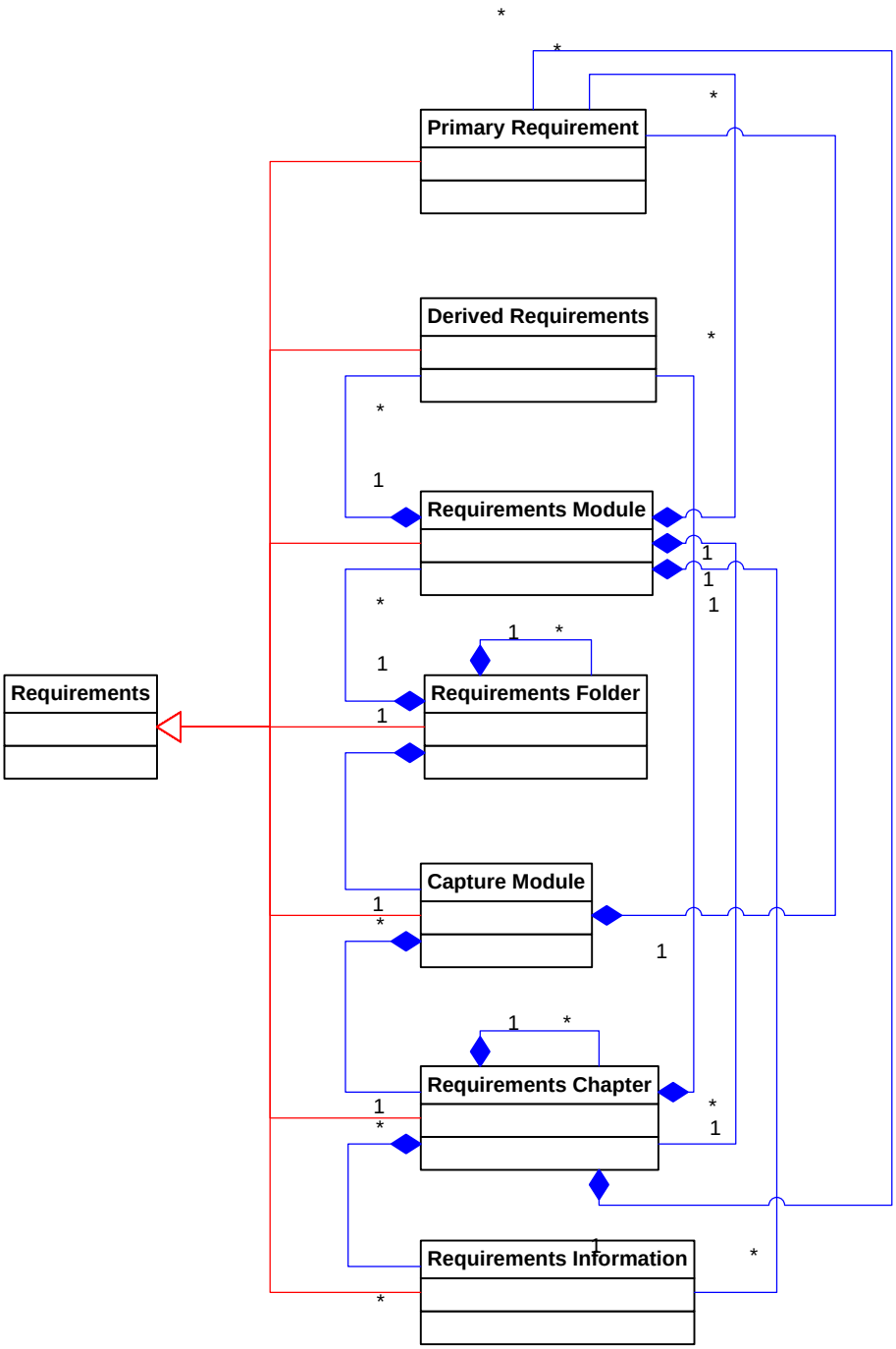
Requirements

Available for CSE_RM (Requirements Management), CSE_XML (Requirements XML Edition) modules



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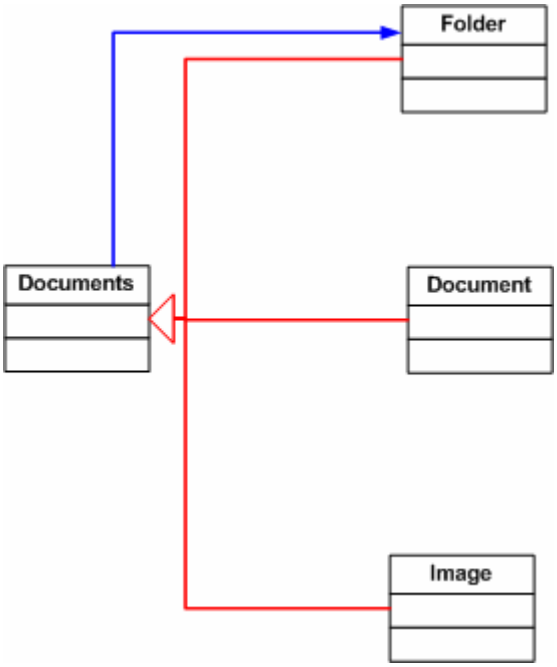
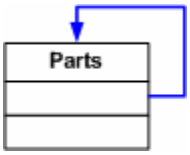
Documents



Parts



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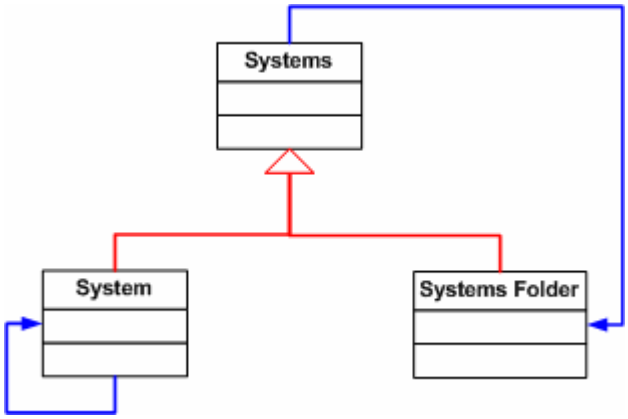
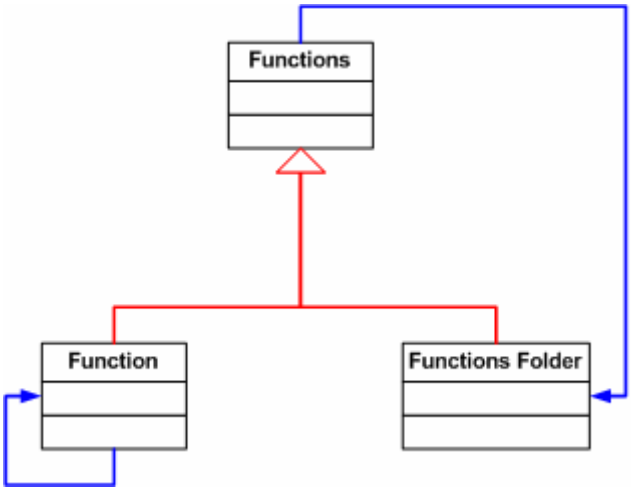
Systems



Functions



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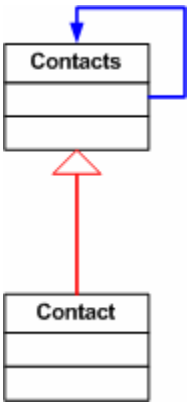
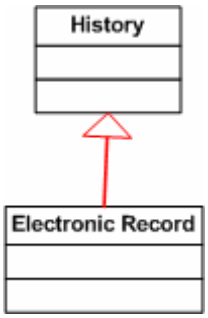
Contacts

Available for CSE_CMN (Collaborative System Lifecycle Management & Traceability) module



History

Available for CSE_HA (Collaborative System Lifecycle Management & Traceability) module



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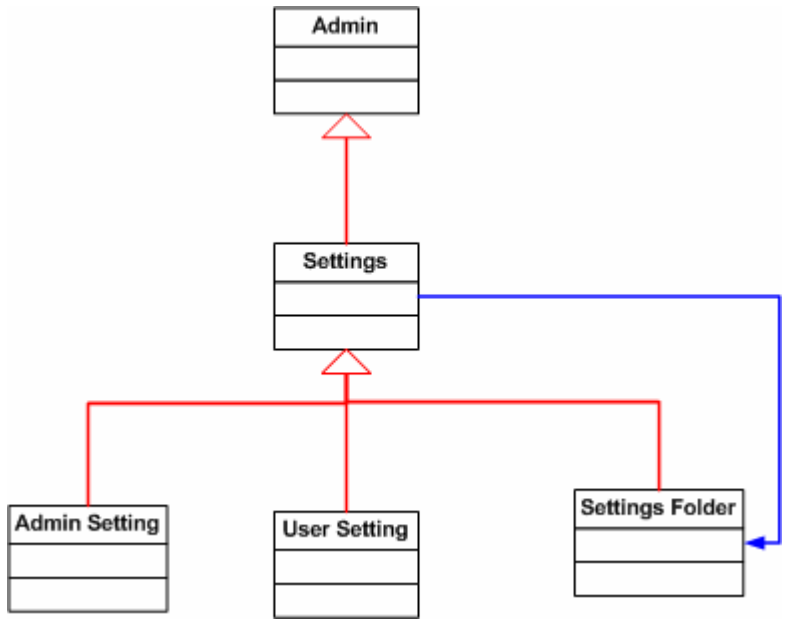
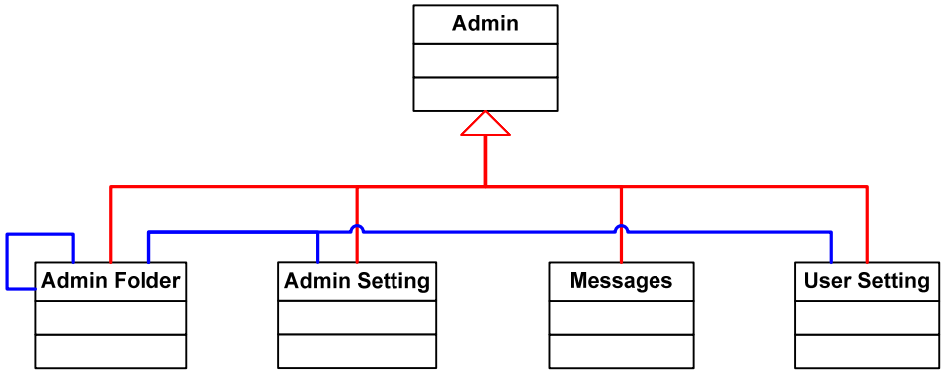
Admin

Available for CSE_CMN (Collaborative System Lifecycle Management & Traceability), CSE_RM (Requirements Management), CSE_XML (Requirements XML Edition), CompositeDocGeneration (Composite Document) and CSE_HA (Collaborative System Lifecycle Management & Traceability) modules.
In the CSE reference DB, the Admin super class data model is the following.



Whether you built manually the CSE data model using WizSrc template the Admin super class data model is the following.



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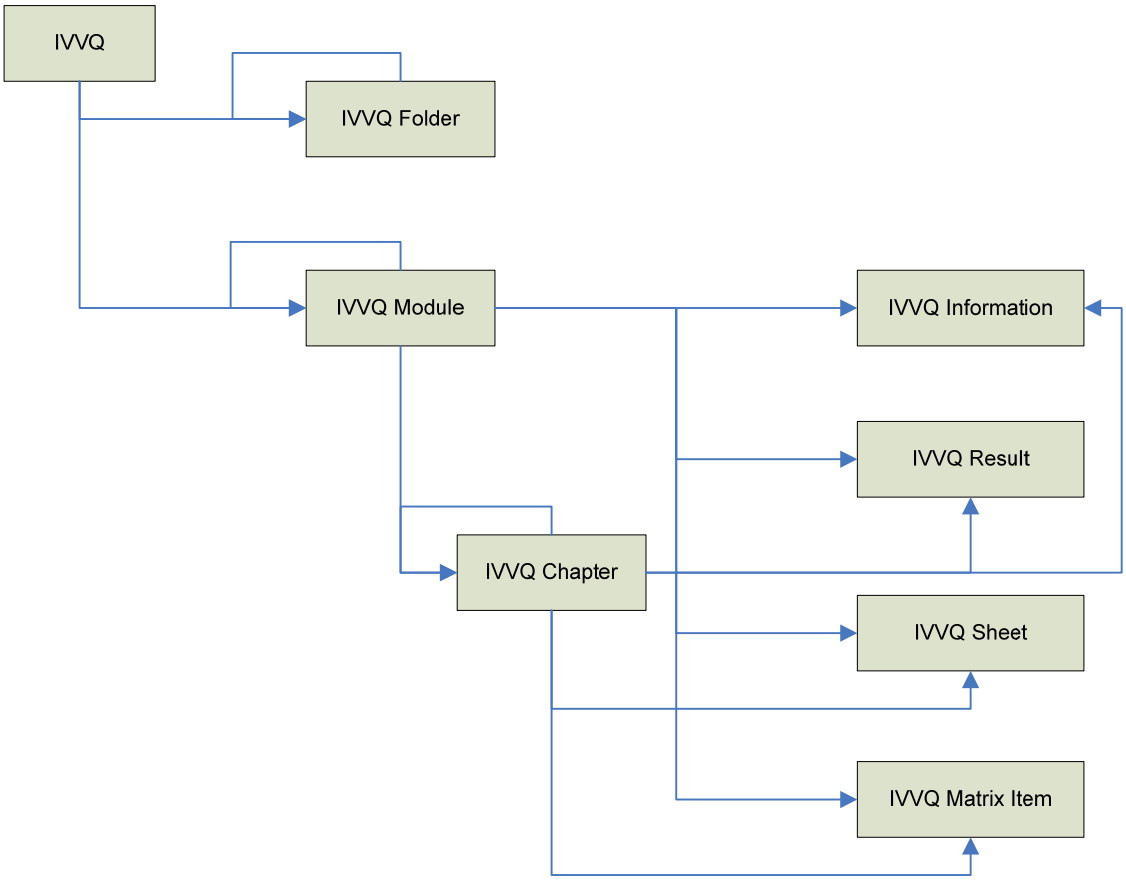
IVVQ



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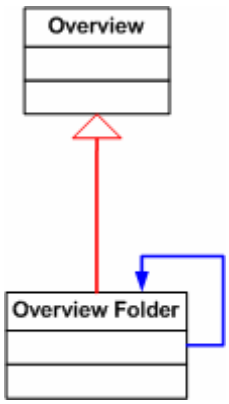
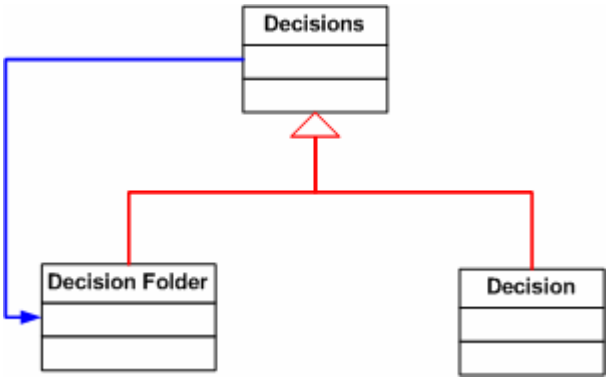
Overview



Decisions

Available for CSE_CMN (Collaborative System Lifecycle Management & Traceability) module



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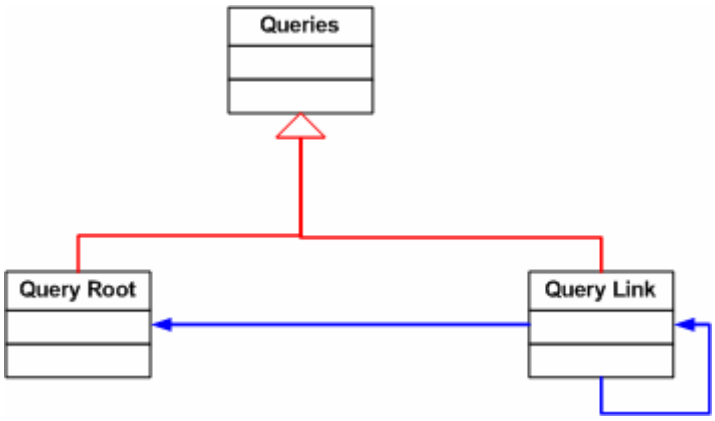
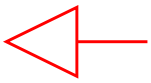
Queries

Available for CompositeDocGeneration (Composite Document) module



Key :



Inheritance

Composition

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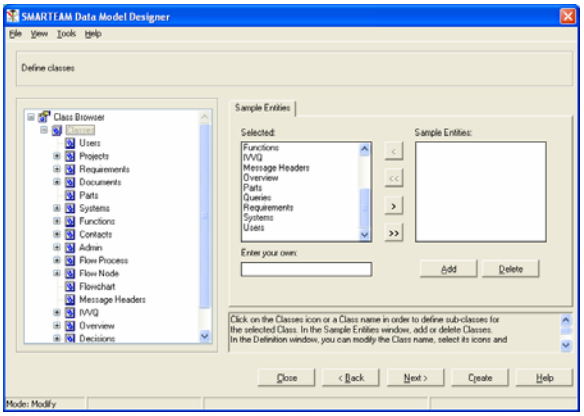
5.2. Create root classes and subclasses

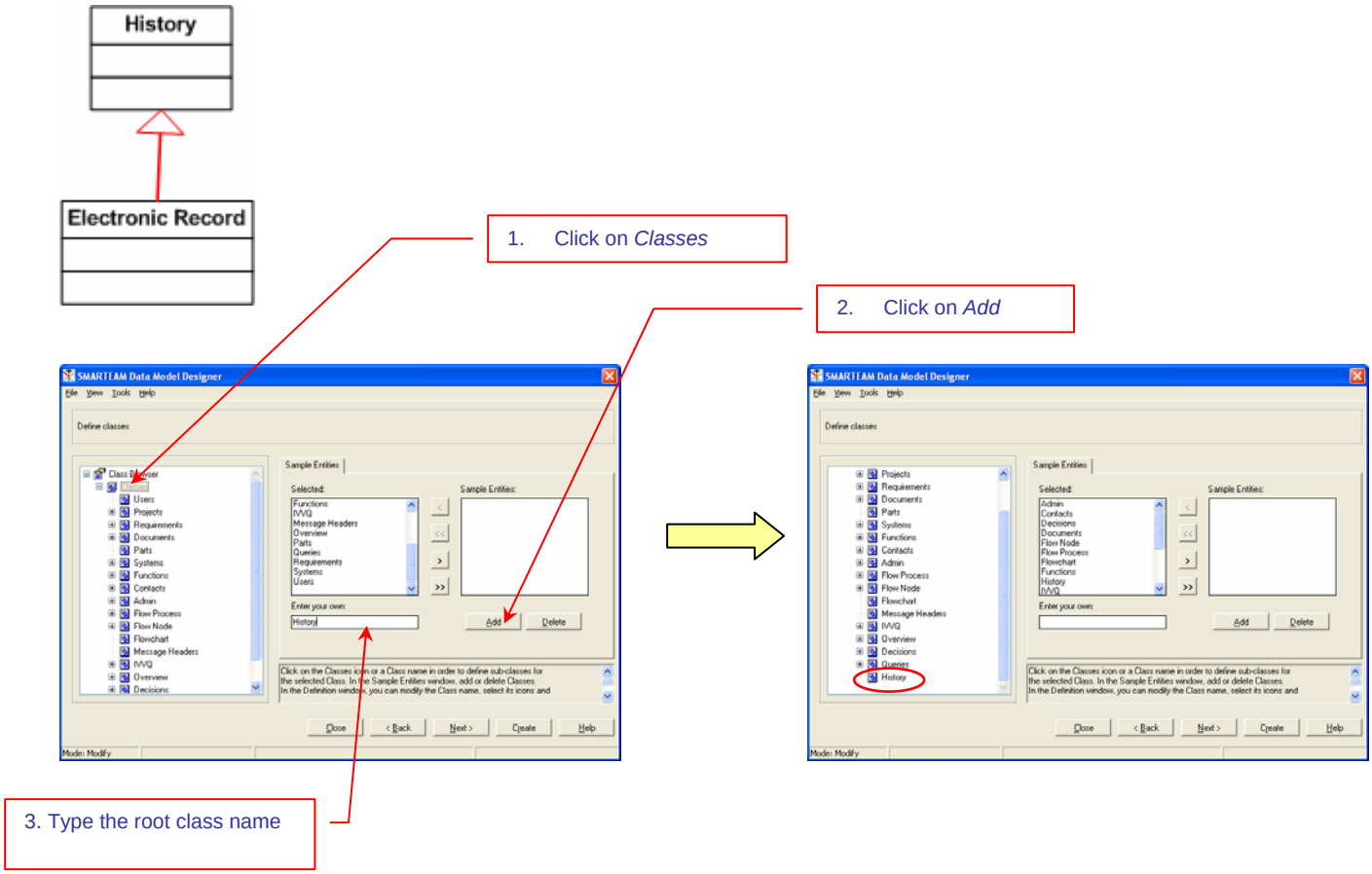
You have to create all the classes of CSE data model according to the UML static structure.



Add root class

Add first we will create a root class (*History*)

Example :



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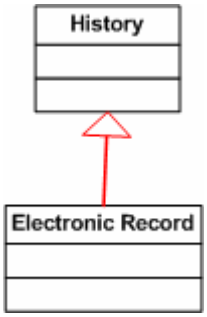
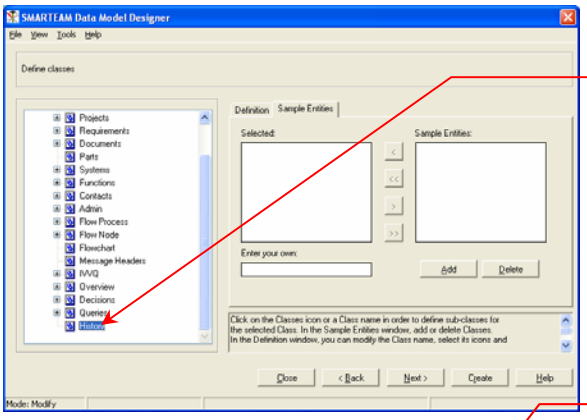
Add sub class

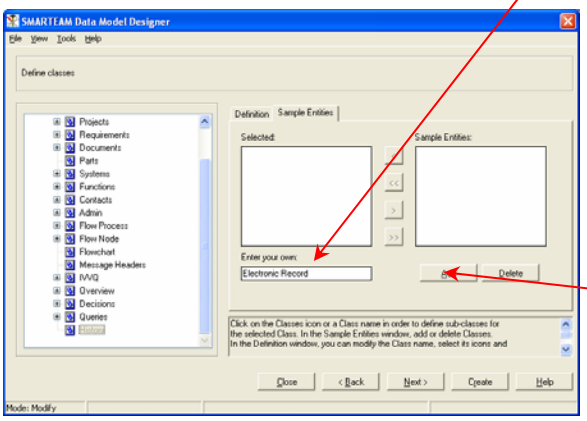
In second time, we will create a sub class (*Electronic Record*), that is to say a class which is hierarchically below an other one (*History*)

Example :



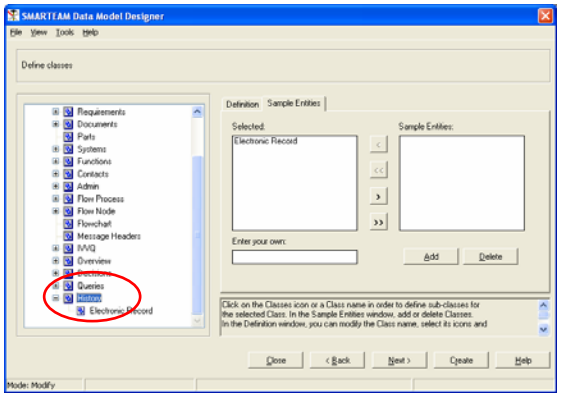


1. Select the parent class



2. Type the sub class name

3. Click on *Add*



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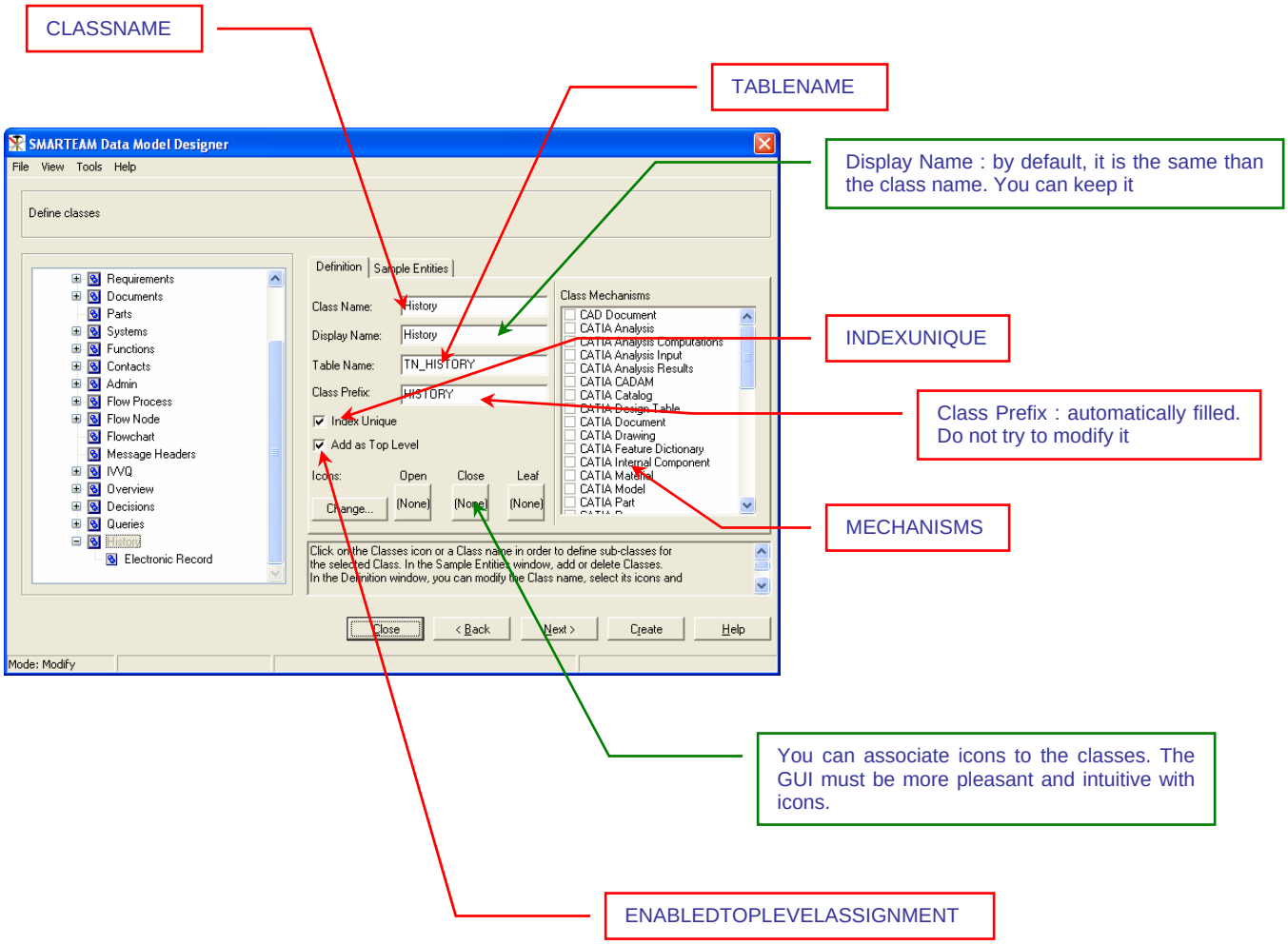
5.3. Classes parameters

There is a first level of parameters concerning the classes :

- CLASSNAME : it was set before when the class was created. Respect the exact name which is indicated in this document ;
- TABLENAME : it is the table in the database associated to the class. Respect the exact name which is indicated in this document ;
- MECHANISMS : ENOVIA SmarTeam functional modules associated more specifically to a class ;
- ENABLEDTOPLEVELASSIGNMENT : If checked, the created objects can be on the first level of a tree object ;
- INDEXUNIQUE : If checked, the identifier (defined just after) of the created objects is unique in the database.



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Apply the parameters of the below table. *ClassType* is just an indication.
SuperClass = Root class
SubClass : It is a class which is hierarchically below another one

CLASSNAME	TABLENAME	CLASSTYPE	ENABLEDTOPLEVELASSIGNMENT	INDEXUNIQUE	MECHANISMS
Users	USERS	SuperClass	TRUE	TRUE	Secured By
Projects	TN_PROJECTS	SuperClass	TRUE	TRUE	Project Definition
Project	TN_PROJECT	SubClass	TRUE	TRUE	Project Definition
Requirements	TN_REQUIREMENTS	SuperClass	FALSE	TRUE	WorkFlow, Word Document, Units of Measure, Secured By
Primary Requirement	TN_PRIMARY_REQUIREMENT	SubClass	FALSE	TRUE	Revision Control, WorkFlow, Word Document, CATIA Design Table, Units of Measure, Secured By
Derived Requirement	TN_DERIVED_REQUIREMENT	SubClass	FALSE	TRUE	Revision Control, WorkFlow, Word Document, Units of Measure, Secured By
Requirements Module	TN_REQUIREMENTS_MODULE	SubClass	TRUE	TRUE	Revision Control, WorkFlow, Word Document, Units of Measure, Secured By
Requirements Folder	TN_REQUIREMENTS_FOLDER	SubClass	TRUE	TRUE	WorkFlow, Word Document, Units of Measure, Secured By
Requirements Information	TN_REQUIREMENTS_INFORMATIO	SubClass	FALSE	TRUE	Revision Control, WorkFlow, Word Document, Units of Measure, Secured By
Requirements Chapter	TN_REQUIREMENTS_CHAPTER	SubClass	FALSE	TRUE	Revision Control, WorkFlow, Word Document, Units of Measure, Secured By
Capture Module	TN_CAPTURE_MODULE	SubClass	TRUE	TRUE	Revision Control, WorkFlow, Word Document, Units of Measure, Secured By
Documents	TN_DOCUMENTS	SuperClass	TRUE	TRUE	Revision Control, File Control, WorkFlow, Document Behavior, Secured By
Folder	TN_FOLDER	SubClass	TRUE	TRUE	Revision Control, File Control, WorkFlow, Document Behavior, Secured By
Document	TN_DOCUMENT	SubClass	TRUE	TRUE	Revision Control, File Control, WorkFlow, Excel Document, Word Document, Document Behavior, Secured By
Image	TN_IMAGE	SubClass	TRUE	TRUE	Revision Control, File Control, WorkFlow, Document Behavior, Secured By
Parts	TN_PARTS	SuperClass	TRUE	TRUE	Revision Control, WorkFlow, Part Behavior, Units of Measure, Secured By
Systems	TN_SYSTEMS	SuperClass	FALSE	TRUE	File Control, WorkFlow, Units of Measure, Secured By
System	TN_SYSTEM	SubClass	TRUE	TRUE	Revision Control, File Control, WorkFlow, CATIA Product, Units of Measure, Secured By
Systems Folder	TN_SYSTEMS_FOLDER	SubClass	TRUE	TRUE	File Control, WorkFlow, Units of Measure, Secured By
Functions	TN_FUNCTIONS	SuperClass	FALSE	TRUE	File Control, WorkFlow, Units of Measure, Secured By
Function	TN_FUNCTION	SubClass	TRUE	TRUE	Revision Control, File Control, WorkFlow, CATIA Product, Units of Measure, Secured By
Functions Folder	TN_FUNCTIONS_FOLDER	SubClass	TRUE	TRUE	File Control, WorkFlow, Units of Measure, Secured By
Contacts	TN_CONTACTS	SuperClass	TRUE	TRUE	Secured By
Contact	TN_CONTACT	SubClass	TRUE	TRUE	Secured By
History	TN_HISTORY	SuperClass	TRUE	FALSE	Secured By
Electronic Record	TN_ELECTRONIC_RECORD	SubClass	TRUE	TRUE	Secured By
Admin	TN_ADMIN	SuperClass	TRUE	TRUE	Secured By
Settings	TN_SETTING	SubClass	TRUE	TRUE	Secured By
Admin Setting	TN_ADMIN_SETTING	SubClass	TRUE	TRUE	Secured By
User Setting	TN_USER_SETTING	SubClass	TRUE	TRUE	Secured By
Settings Folder	TN_SETTINGS_FOLDER	SubClass	TRUE	TRUE	Secured By
Flow Process	TDM_SF_PROCESS	SuperClass	FALSE	TRUE	

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General Process	TDM_SF_GEN_PROCESS	SubClass	FALSE	TRUE	
Requirement Change Proposal	TN_REQUIREMENT_CHANGE_PROP	SubClass	TRUE	TRUE	
IVVQ	TN_IVVQ	SuperClass	FALSE	TRUE	Secured By
IVVQ Folder	TN_IVVQ_FOLDER	SubClass	TRUE	TRUE	Secured By,
IVVQ Module	TN_IVVQ_MODULE	SubClass	TRUE	TRUE	Secured By, File Control, WorkFlow, Revision Control
IVVQ Chapter	TN_IVVQ_CHAPTER	SubClass	FALSE	TRUE	Secured By, WorkFlow, Revision Control
IVVQ Information	TN_IVVQ_INFORMATION	SubClass	FALSE	TRUE	Secured By, WorkFlow, Revision Control
IVVQ Result	TN_IVVQ_RESULT	SubClass	FALSE	TRUE	Secured By, File Control, WorkFlow, Revision Control
IVVQ Sheet	TN_IVVQ_SHEET	SubClass	FALSE	TRUE	Secured By, File Control, WorkFlow, Revision Control
IVVQ Matrix Item	TN_IVVQ_MATRIX_ITEM	SubClass	FALSE	TRUE	Secured By, Workflow, Revision Control
Overview	TN_OVERVIEW	SuperClass	TRUE	TRUE	Secured By
Overview Folder	TN_OVERVIEW_FOLDER	SubClass	TRUE	TRUE	Secured By
Decisions	TN_DECISIONS	SuperClass	TRUE	TRUE	Secured By
Decision Folder	TN_DECISION_FOLDER	SubClass	TRUE	TRUE	Secured By
Decision	TN_DECISION	SubClass	TRUE	TRUE	Secured By
Queries	TN_QUERIES	SuperClass	FALSE	TRUE	
Query Root	TN_QUERY_ROOT	SubClass	TRUE	TRUE	
Query Link	TN_QUERY_LINK	SubClass	FALSE	TRUE	

Click on *Next*

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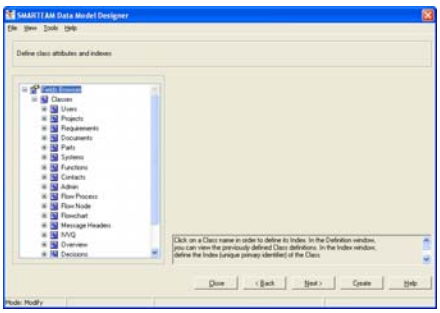
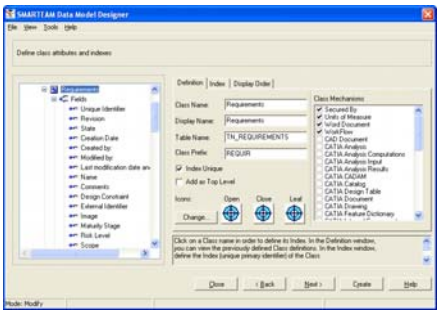
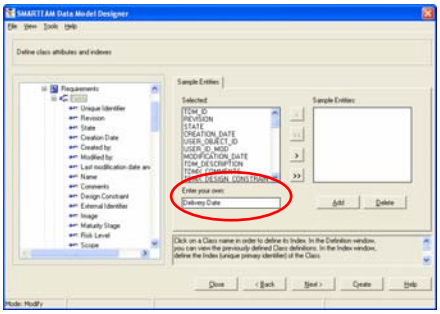
6. 4th step : Add attributes to the classes



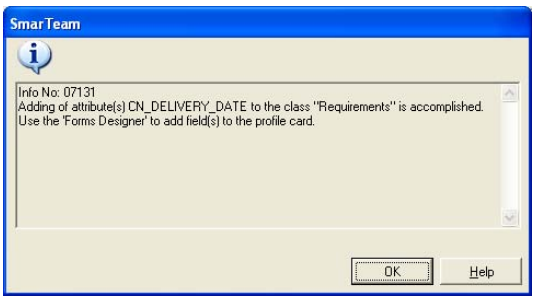
1. Select a class ;



2. Select *Fields* and type the new attribute name in the field. *Enter your own* ;



3. Click on *OK* and confirm ;



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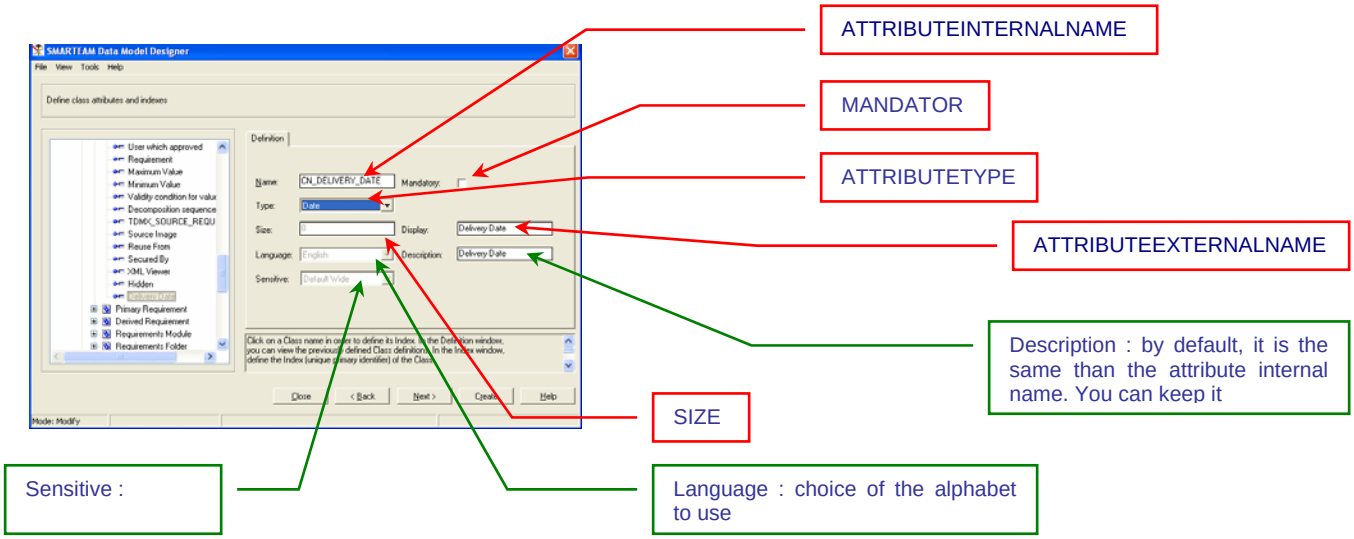
4. Choose the type of the attribute ;

- ATTRIBUTEINTERNALNAME : it is the name of the column in the table in the database. This name is used in the scripts. Respect the exact name which is indicated in this document ;
- MANDATORY : if checked, the attribute has to be valued before creating/modifying the current object ;
- ATTRIBUTETYPE : type of the attribute (char, integer, date, …) ;
- Display : If it was set before when the attribute was created. Respect the exact name which is indicated in this document ;
- SIZE : size of the value in the table. For most of attribute type, this field is read only.



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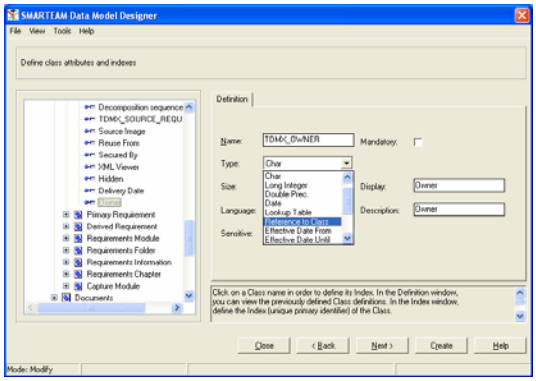
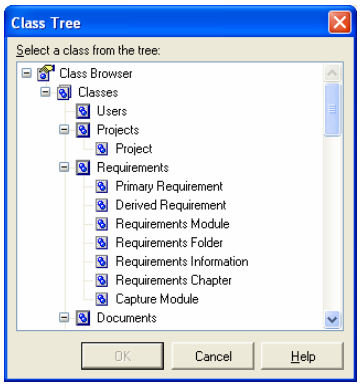
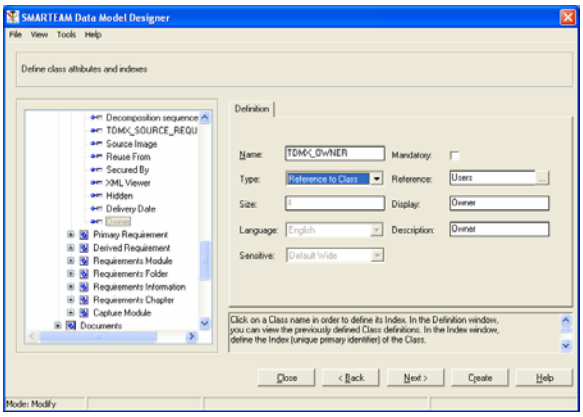
6.1. Special case: add a ref-to-class attribute

1. Select *Reference to Class* among the *Type*;



2. Select a class





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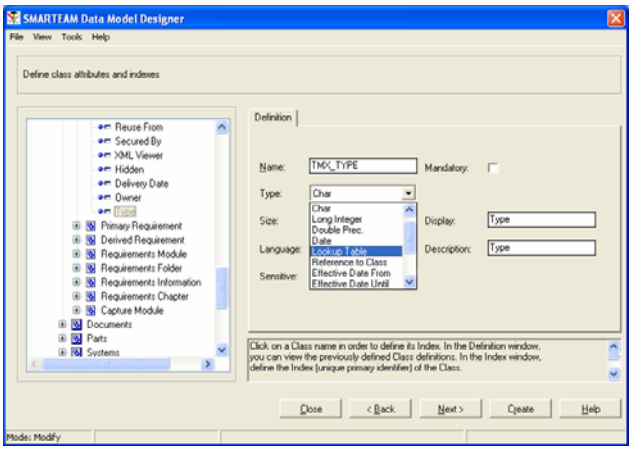
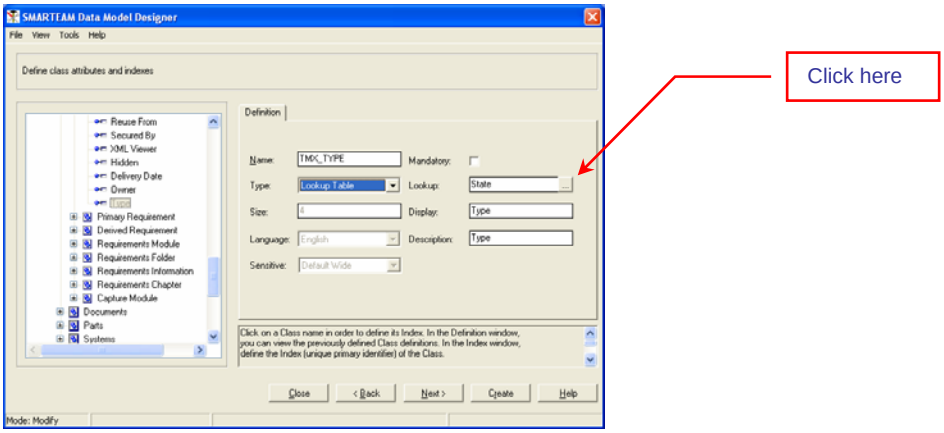
6.2. Special case : add a lookup attribute

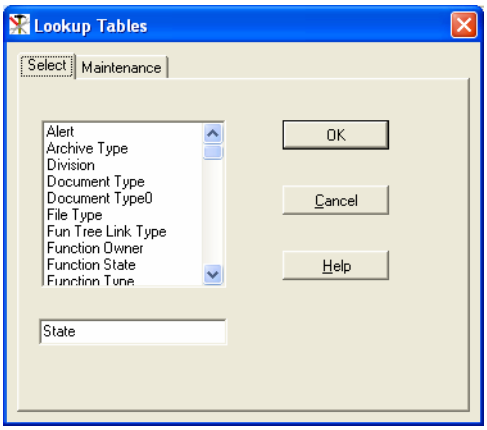
1. Select *Lookup Table* among the *Type*;



2. By default, the proposed *Lookup Table* is *State*. Click on the button to change the *Lookup Table*;



3. Select an existing *Lookup Table*;



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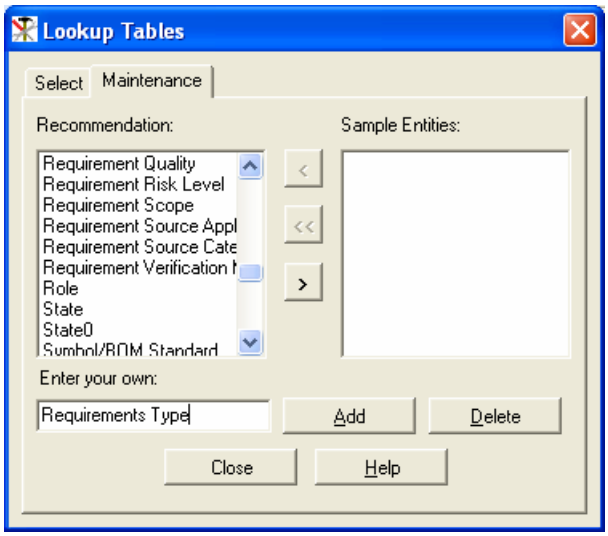
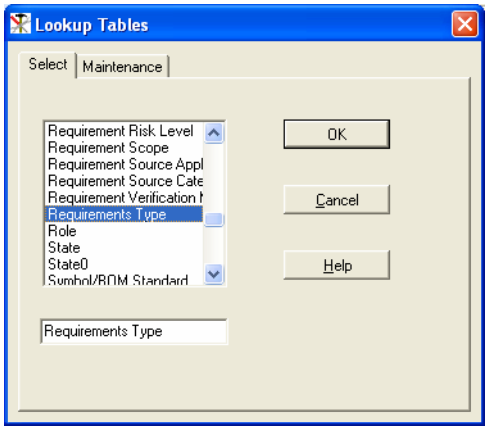
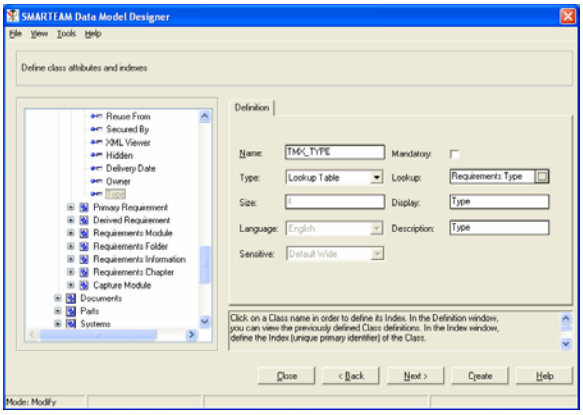
4. If the *Lookup Table* does not exist, click on the *Maintenance* tab and type a new *Lookup Table* Name in the field *Entire your own*;



5. Click on the *Select* tab and select the *Lookup Table* created;





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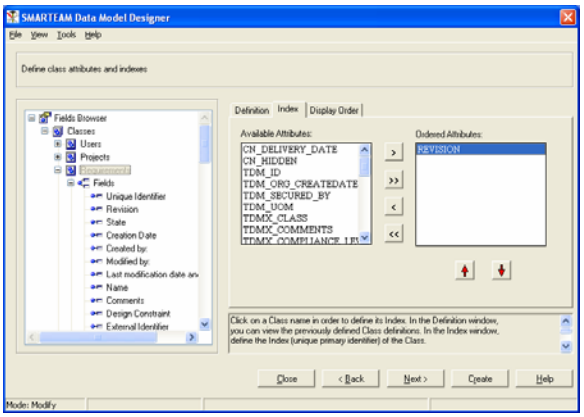
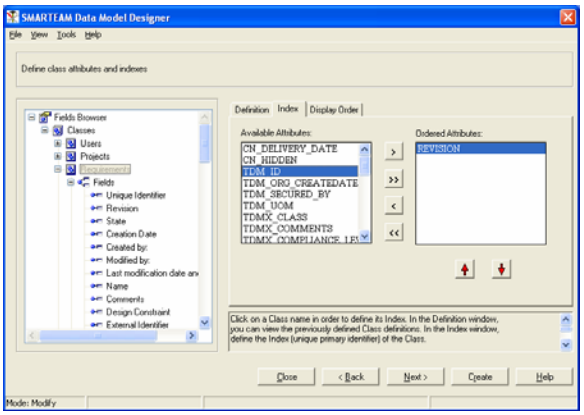
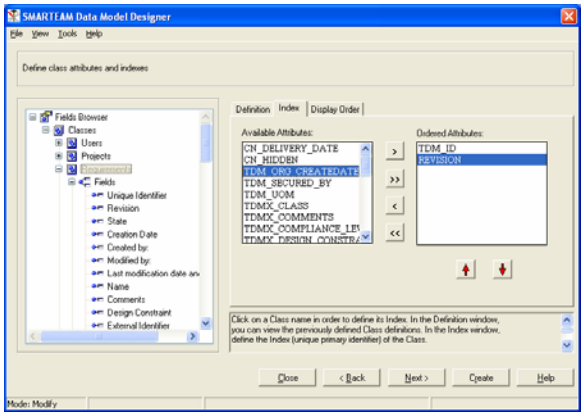
6.3. Define the identifier (="Index")

1. Click on the *Index* tab. The attribute *Revision* is added automatically in the *Ordered Attributes* field (if the current class is *Revision Controlled*);



2. Select the attributes which will be part of primary key and move them in the *Ordered Attributes* field;





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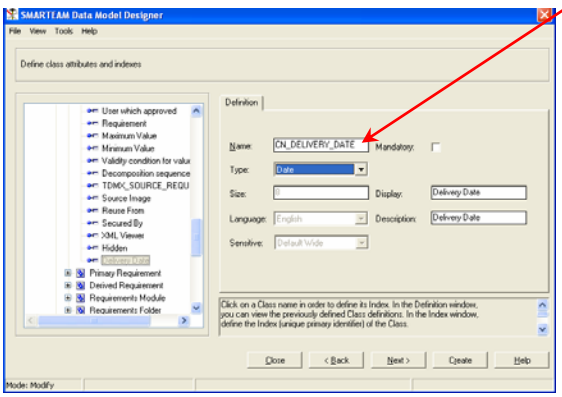
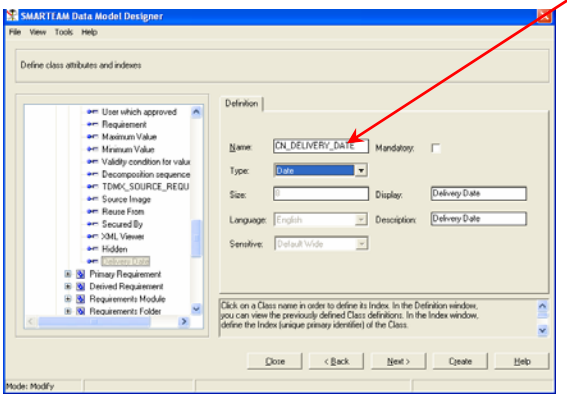
6.4. Define the internal name (= "Column name") on the attribute

1st case : You are creating a new database

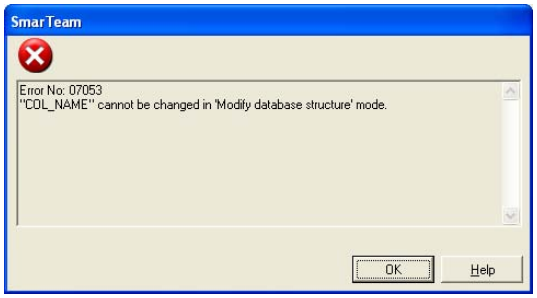


This field, automatically filled, can be modified.

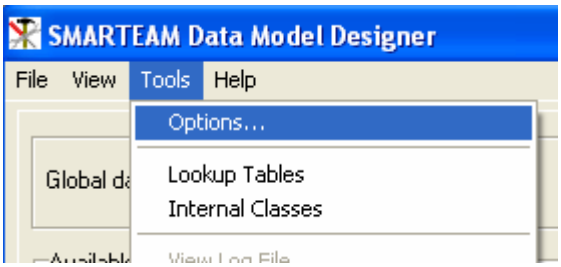
2nd case : You are modifying an existing database



This field, automatically filled, cannot be modified.



1. Select *Tools* and after *Options…* ;



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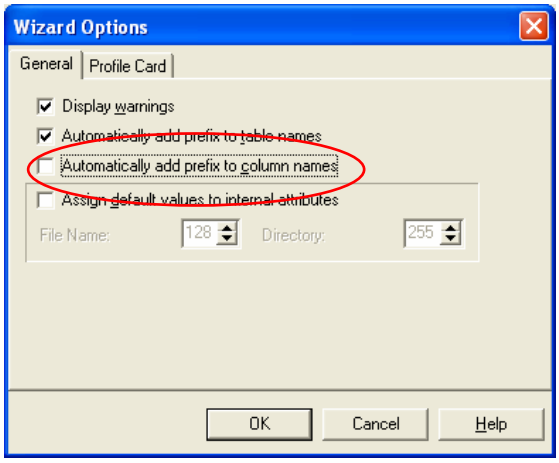
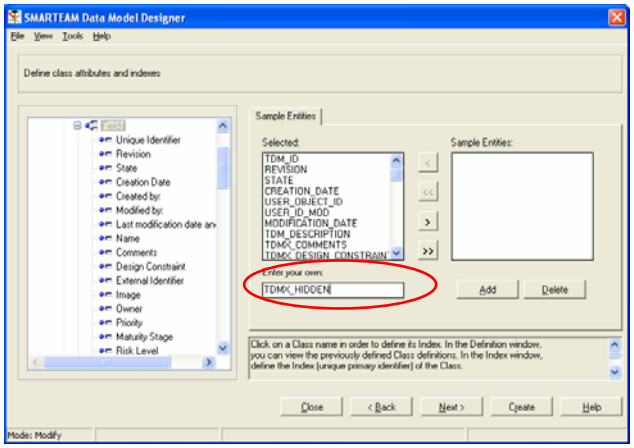
2. Unchecked *Automatically add prefix to column names* ;



3. When you are adding the new attributes, instead of typing the display name, type the internal name



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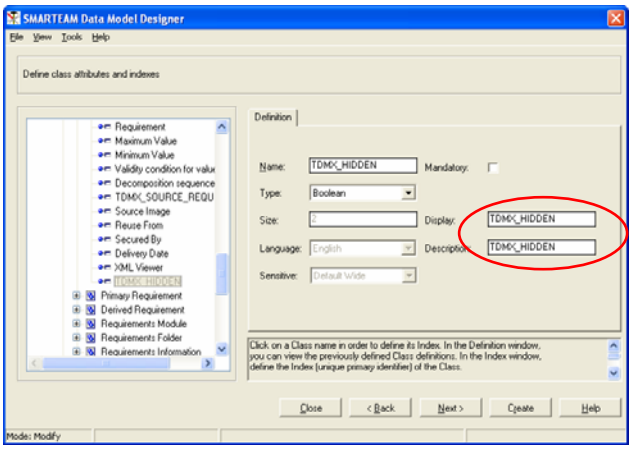
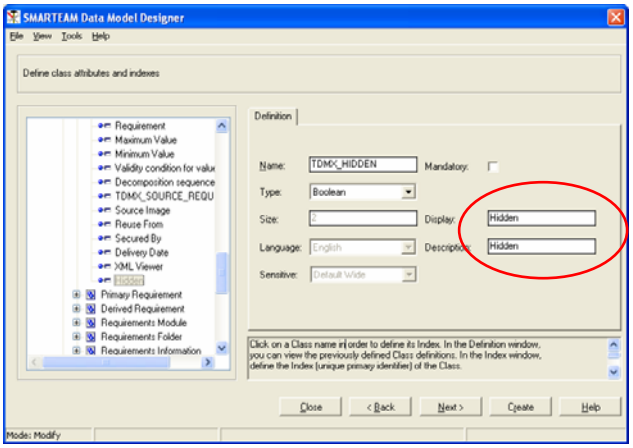


Type the display name instead of the internal name



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Apply the parameters of the below table. *OBLIGATORY and READONLY* are just indications. Do not pay attention for them. *OBLIGATORY* concerns attributes which are created by ENOVIA SmarTeam by default and do not have to be removed.

Users (USERS)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Login	LOGIN	Char	TRUE	TRUE	TRUE	FALSE		101
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Password	USER_PASSWORD	Char	FALSE	FALSE	TRUE	FALSE		129
First name	FIRST_NAME	Char	FALSE	FALSE	TRUE	FALSE		21
Last Name	LAST_NAME	Char	FALSE	FALSE	TRUE	FALSE		31
Phone	USER_PHONE	Char	FALSE	FALSE	TRUE	FALSE		21
Fax	USER_FAX	Char	FALSE	FALSE	TRUE	FALSE		21
e-mail	USER_EMAIL	Char	FALSE	FALSE	TRUE	FALSE		51
Division	USER_DIVISION	Char	FALSE	FALSE	TRUE	FALSE		31
Title	USER_TITLE	Char	FALSE	FALSE	TRUE	FALSE		31
Security code	SECURITY_CODE	SmallInt	FALSE	FALSE	TRUE	FALSE		2
Internal user	TDM_INTERNAL_USER	Boolean	FALSE	FALSE	TRUE	FALSE		2
Secured By	TDM_SECURED_BY	Memo	FALSE	FALSE	FALSE	FALSE		16

Projects (TN_PROJECTS)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
ID	CN_ID	Char	TRUE	FALSE	FALSE	FALSE		21
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8

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Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Project Leader	TDMX_PROJECT_LEADER	Char	FALSE	FALSE	FALSE	FALSE		51
Project State	TDMX_PROJECT_STATE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Project State (TN_PROJECT_STATE)	4
Budget	TDMX_BUDGET	Char	FALSE	FALSE	FALSE	FALSE		21
Start Date	TDMX_START_DATE	Date	FALSE	FALSE	FALSE	FALSE		8
Target Date	TDMX_TARGET_DATE	Date	FALSE	FALSE	FALSE	FALSE		8
Restricted	TDM_RESTRICTED	Boolean	FALSE	FALSE	FALSE	FALSE		2
Template Project	CN_TEMPLATE_PROJECT	Char	FALSE	FALSE	FALSE	FALSE		41

Project (TN_PROJECT)

No specific attributes

Requirements (TN_REQUIREMENTS)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Unique Identifier	TDMX_ID	Char	TRUE	TRUE	FALSE	FALSE		51
Revision	REVISION	Char	TRUE	FALSE	TRUE	TRUE		11
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Name	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Comments	TDMX_COMMENTS	Memo	FALSE	FALSE	FALSE	FALSE		16
Design Constraint	TDMX_DESIGN_CONSTRAINT	LookUpTable	FALSE	FALSE	FALSE	FALSE	Requirement Design Constraint (TN_REQUIREMENT_DESIGN_CONS)	4
External Identifier	TDMX_EXTERNAL_ID	Char	FALSE	FALSE	FALSE	FALSE		21
Image	TDMX_IMAGE	RefToClass	FALSE	FALSE	FALSE	FALSE	Documents (TN_DOCUMENTS)	4
Owner	TDMX_OWNER	RefToClass	FALSE	FALSE	FALSE	FALSE	Users (USERS)	4
Priority	TDMX_PRIORITY	LookUpTable	FALSE	FALSE	FALSE	FALSE	Requirement Priority (TN_REQUIREMENT_PRIORITY)	4
Maturity Stage	TDMX_MATURITY_STAGE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Requirement Maturity Stage (TN_REQUIREMENT_MATURITY_ST)	4
Risk Level	TDMX_RISK_LEVEL	LookUpTable	FALSE	FALSE	FALSE	FALSE	Requirement Risk Level (TN_REQUIREMENT_RISK_LEVEL)	4
Scope	TDMX_SCOPE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Requirement Scope (TN_REQUIREMENT_SCOPE)	4
Source Application	TDMX_SOURCE_APPLICATION	LookUpTable	FALSE	FALSE	FALSE	FALSE	Requirement Source Application (TN_REQUIREMENT_SOURCE_APPL)	4
Source Application ID	TDMX_SOURCE_APPLICATION_ID	Char	FALSE	FALSE	FALSE	FALSE		21

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Submitted by	TDMX_SUBMITTED_BY	RefToClass	FALSE	FALSE	FALSE	FALSE	Contacts (TN_CONTACTS)	4
Type	TDMX_TYPE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Requirement Type (TN_REQUIREMENT_TYPE)	4
Compliance Level	TDMX_COMPLIANCE_LEVEL	LookUpTable	FALSE	FALSE	FALSE	FALSE	Requirement Compliance Level (TN_REQUIREMENT_COMPLIANCE_)	4
Class	TDMX_CLASS	LookUpTable	FALSE	FALSE	FALSE	FALSE	Requirement Class (TN_REQUIREMENT_CLASS)	4
Source Category	TDMX_SOURCE_CATEGORY	LookUpTable	FALSE	FALSE	FALSE	FALSE	Requirement Source Category (TN_REQUIREMENT_SOURCE_CATE)	4
Verification Method	TDMX_VERIFICATION_METHOD	LookUpTable	FALSE	FALSE	FALSE	FALSE	Requirement Verification Method (TN_REQUIREMENT_VERIFICATIO)	4
Weight Factor	TDMX_WEIGHT_FACTOR	Double	FALSE	FALSE	FALSE	FALSE		8
Quality	TDMX_QUALITY	LookUpTable	FALSE	FALSE	FALSE	FALSE	Requirement Quality (TN_REQUIREMENT_QUALITY)	4
Value	TDMX_VALUE	Char	FALSE	FALSE	FALSE	FALSE		51
Security level outside flow proc	TDM_SF_SECURE_LVL	LookUpTable	FALSE	TRUE	TRUE	TRUE	Security Level outside workflow (TDM_SF_SECUR_LEV)	4
Phase	PHASE	LookUpTable	FALSE	FALSE	TRUE	FALSE	Phase (PHASE)	4
Units of Measure	TDM_UOM	LookUpTable	FALSE	FALSE	FALSE	FALSE	Units of Measure (TDM_UNIT_OF_MEASURE)	4
Previous Revision	PAR_REVISION	Char	FALSE	FALSE	TRUE	TRUE		11
Approval Date	APPROVAL_DATE	Date	FALSE	FALSE	TRUE	FALSE		8
Effective From	EFFECTIVE_FROM	EffectiveDateFrom	FALSE	FALSE	TRUE	FALSE		8
Effective Until	EFFECTIVE_UNTIL	EffectiveDateUntil	FALSE	FALSE	TRUE	FALSE		8
Under Operation	UNDER_OPERATION	SmallInt	FALSE	FALSE	TRUE	FALSE		2
First revision creator	TDM_ORG_USER_ID	RefToClass	FALSE	FALSE	FALSE	TRUE	Users (USERS)	4
Date of first revision creation	TDM_ORG_CREATEDATE	TimeStamp	FALSE	FALSE	FALSE	FALSE		8
User which approved	TDM_APPROVED_BY	RefToClass	FALSE	FALSE	FALSE	TRUE	Users (USERS)	4
Requirement	TDMX_REQUIREMENT	Memo	FALSE	FALSE	FALSE	FALSE		16
Maximum Value	TDMX_VALUE_MAX	Char	FALSE	FALSE	FALSE	FALSE		51
Minimum Value	TDMX_VALUE_MIN	Char	FALSE	FALSE	FALSE	FALSE		51
Validity condition for value	TDMX_VALUE_VALIDITY_COND	Char	FALSE	FALSE	FALSE	FALSE		51
Decomposition sequence	TDMX_SEQ_COUNT	Integer	FALSE	FALSE	FALSE	FALSE		4
TDMX_SOURCE_REQUIREMENT	TDMX_SOURCE_REQUIREMENT	Memo	FALSE	FALSE	FALSE	FALSE		16
Source Image	TDMX_SOURCE_IMAGE	RefToClass	FALSE	FALSE	FALSE	FALSE	Documents (TN_DOCUMENTS)	4
Reuse From	TDMX_REUSE_PARENT	RefToClass	FALSE	FALSE	FALSE	FALSE	Requirements (TN_REQUIREMENTS)	4
Secured By	TDM_SECURED_BY	Memo	FALSE	FALSE	FALSE	FALSE		16
Delivery Date	CN_DELIVERY_DATE	Date	FALSE	FALSE	FALSE	FALSE		8
XML Viewer	TDMX_XML_VIEWER	URL	FALSE	FALSE	FALSE	FALSE		16
Hidden	TDMX_HIDDEN	Boolean	FALSE	FALSE	FALSE	FALSE		2
Locked by	TDMX_LOCKED_BY	Char	FALSE	FALSE	FALSE	FALSE		255

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Primary Requirement (TN_PRIMARY_REQUIREMENT)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
TDMX_TEXT_CONFIG	TDMX_TEXT_CONFIG	Char	FALSE	FALSE	FALSE	FALSE		101

Derived Requirement (TN_DERIVED_REQUIREMENT)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Derived Requirement	TDMX_DERIVED_REQUIREMENT	Memo	FALSE	FALSE	FALSE	FALSE		16
TDMX_TEXT_CONFIG	TDMX_TEXT_CONFIG	Char	FALSE	FALSE	FALSE	FALSE		101

Requirements Module (TN_REQUIREMENTS_MODULE)

No specific attributes

Requirements Folder (TN_REQUIREMENTS_FOLDER)

No specific attributes

Requirements Information (TN_REQUIREMENTS_INFORMATIO)

No specific attributes

Requirements Chapter (TN_REQUIREMENTS_CHAPTER)

No specific attributes

Capture Module (TN_CAPTURE_MODULE)

No specific attributes

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Documents (TN_DOCUMENTS)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
ID	CN_ID	Char	TRUE	FALSE	FALSE	FALSE		21
Revision	REVISION	Char	TRUE	FALSE	TRUE	TRUE		11
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
File Type	FILE_TYPE	LookUpTable	FALSE	FALSE	TRUE	FALSE	File Type (FILE_TYPE)	4
File Name	FILE_NAME	Char	FALSE	FALSE	TRUE	FALSE		129
Directory	DIRECTORY	Char	FALSE	FALSE	TRUE	FALSE		256
Application Reference File Name	CAD_REF_FILE_NAME	Char	FALSE	FALSE	TRUE	FALSE		129
Cad Directory Name	CAD_REF_DIRECTORY	Char	FALSE	FALSE	TRUE	FALSE		256
CAD dirty flag	TDM_CAD_DIRTYFLAG	Integer	FALSE	FALSE	FALSE	FALSE		4
Component name	TDM_COMPONENT_NAME	Char	FALSE	FALSE	FALSE	TRUE		256
Phase	PHASE	LookUpTable	FALSE	FALSE	TRUE	FALSE	Phase (PHASE)	4
Previous Revision	PAR_REVISION	Char	FALSE	FALSE	TRUE	TRUE		11
Approval Date	APPROVAL_DATE	Date	FALSE	FALSE	TRUE	FALSE		8
Effective From	EFFECTIVE_FROM	EffectiveDateFrom	FALSE	FALSE	TRUE	FALSE		8
Effective Until	EFFECTIVE_UNTIL	EffectiveDateUntil	FALSE	FALSE	TRUE	FALSE		8
Under Operation	UNDER_OPERATION	SmallInt	FALSE	FALSE	TRUE	FALSE		2
First revision creator	TDM_ORG_USER_ID	RefToClass	FALSE	FALSE	FALSE	TRUE	Users (USERS)	4
Date of first revision creation	TDM_ORG_CREATEDATE	TimeStamp	FALSE	FALSE	FALSE	FALSE		8
User which approved	TDM_APPROVED_BY	RefToClass	FALSE	FALSE	FALSE	TRUE	Users (USERS)	4
Comments	CN_COMMENTS	Memo	FALSE	FALSE	FALSE	FALSE		16
Department	CN_DEPARTMENT	Char	FALSE	FALSE	FALSE	FALSE		21
Document Type	TDM_DOCUMENT_TYPE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Document Type (TN_DOCUMENT_TYPE)	4
Archive Type	TDM_ARCHIVE_TYPE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Archive Type (TDM_ARCHIVE_TYPE)	4
Archive Name	TDM_ARCHIVE_NAME	Char	FALSE	FALSE	FALSE	FALSE		129
Required signatures	TDM_ES_COUNT	SmallInt	FALSE	FALSE	FALSE	FALSE		2
Electronic Signature	TDM_SIGNATURE	Memo	FALSE	FALSE	FALSE	FALSE		16
Counter of active parts	TDM_PART_CHECK	Integer	FALSE	FALSE	FALSE	FALSE		4

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Security level outside flow proc	TDM_SF_SECURE_LVL	LookUpTable	FALSE	TRUE	TRUE	TRUE	Security Level outside workflow (TDM_SF_SECUR_LEV)	4
Secured By	TDM_SECURED_BY	Memo	FALSE	FALSE	FALSE	FALSE		16
Hidden	TDMX_HIDDEN	Boolean	FALSE	FALSE	FALSE	FALSE		2

Folder (TN_FOLDER)

No specific attributes

Document (TN_DOCUMENT)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Stakeholder	CN_STAKEHOLDER	RefToClass	FALSE	FALSE	FALSE	FALSE	Contacts (TN_CONTACTS)	4

Image (TN_IMAGE)

No specific attributes

Parts (TN_PARTS)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
ID	CN_ID	Char	TRUE	FALSE	FALSE	FALSE		21
Revision	REVISION	Char	TRUE	FALSE	TRUE	TRUE		11
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Name	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Detailed description	TDM_DETAILED_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Classification	TDM_CLASSIFICATION	Char	FALSE	FALSE	FALSE	FALSE		129
Units of Measure	TDM_UOM	LookUpTable	FALSE	FALSE	FALSE	FALSE	Units of Measure (TDM_UNIT_OF_MEASURE)	4
Phase	PHASE	LookUpTable	FALSE	FALSE	TRUE	FALSE	Phase (PHASE)	4
Previous Revision	PAR_REVISION	Char	FALSE	FALSE	TRUE	TRUE		11
Approval Date	APPROVAL_DATE	Date	FALSE	FALSE	TRUE	FALSE		8
Effective From	EFFECTIVE_FROM	EffectiveDateFrom	FALSE	FALSE	TRUE	FALSE		8

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Effective Until	EFFECTIVE_UNTIL	EffectiveDateUntil	FALSE	FALSE	TRUE	FALSE		8
Under Operation	UNDER_OPERATION	SmallInt	FALSE	FALSE	TRUE	FALSE		2
First revision creator	TDM_ORG_USER_ID	RefToClass	FALSE	FALSE	FALSE	TRUE	Users (USERS)	4
Date of first revision creation	TDM_ORG_CREATEDATE	TimeStamp	FALSE	FALSE	FALSE	FALSE		8
User which approved	TDM_APPROVED_BY	RefToClass	FALSE	FALSE	FALSE	TRUE	Users (USERS)	4
Security level outside flow proc	TDM_SF_SECURE_LVL	LookUpTable	FALSE	TRUE	TRUE	TRUE	Security Level outside workflow (TDM_SF_SECUR_LEV)	4
Secured By	TDM_SECURED_BY	Memo	FALSE	FALSE	FALSE	FALSE		16
Hidden	TDMX_HIDDEN	Boolean	FALSE	FALSE	FALSE	FALSE		2

Systems (TN_SYSTEMS)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Unique Identifier	TDMX_ID	Char	TRUE	TRUE	FALSE	FALSE		51
Revision	REVISION	Char	TRUE	FALSE	TRUE	TRUE		11
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Owner	TDMX_OWNER	LookUpTable	FALSE	FALSE	FALSE	FALSE	System Owner (TN_SYSTEM_OWNER)	4
Type	TDMX_TYPE	LookUpTable	FALSE	FALSE	FALSE	FALSE	System Type (TN_SYSTEM_TYPE)	4
System State	TDMX_SYSTEM_STATE	LookUpTable	FALSE	FALSE	FALSE	FALSE	System State (TN_SYSTEM_STATE)	4
Phase	PHASE	LookUpTable	FALSE	FALSE	TRUE	FALSE	Phase (PHASE)	4
Previous Revision	PAR_REVISION	Char	FALSE	FALSE	TRUE	TRUE		11
Approval Date	APPROVAL_DATE	Date	FALSE	FALSE	TRUE	FALSE		8
Effective From	EFFECTIVE_FROM	EffectiveDateFrom	FALSE	FALSE	TRUE	FALSE		8
Effective Until	EFFECTIVE_UNTIL	EffectiveDateUntil	FALSE	FALSE	TRUE	FALSE		8
Under Operation	UNDER_OPERATION	SmallInt	FALSE	FALSE	TRUE	FALSE		2
First revision creator	TDM_ORG_USER_ID	RefToClass	FALSE	FALSE	FALSE	TRUE	Users (USERS)	4
Date of first revision creation	TDM_ORG_CREATEDATE	TimeStamp	FALSE	FALSE	FALSE	FALSE		8
User which approved	TDM_APPROVED_BY	RefToClass	FALSE	FALSE	FALSE	TRUE	Users (USERS)	4
Units of Measure	TDM_UOM	LookUpTable	FALSE	FALSE	FALSE	FALSE	Units of Measure (TDM_UNIT_OF_MEASURE)	4
Security level outside flow proc	TDM_SF_SECURE_LVL	LookUpTable	FALSE	TRUE	TRUE	TRUE	Security Level outside workflow (TDM_SF_SECUR_LEV)	4
Secured By	TDM_SECURED_BY	Memo	FALSE	FALSE	FALSE	FALSE		16

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File Type	FILE_TYPE	LookUpTable	FALSE	FALSE	TRUE	FALSE	File Type (FILE_TYPE)	4
File Name	FILE_NAME	Char	FALSE	FALSE	TRUE	FALSE		129
Directory	DIRECTORY	Char	FALSE	FALSE	TRUE	FALSE		256
Application Reference File Name	CAD_REF_FILE_NAME	Char	FALSE	FALSE	TRUE	FALSE		129
Cad Directory Name	CAD_REF_DIRECTORY	Char	FALSE	FALSE	TRUE	FALSE		256
CAD dirty flag	TDM_CAD_DIRTYFLAG	Integer	FALSE	FALSE	FALSE	FALSE		4
Component name	TDM_COMPONENT_NAME	Char	FALSE	FALSE	FALSE	TRUE		256
Comment	TDMX_COMMENT	Memo	FALSE	FALSE	FALSE	FALSE		16

System (TN_SYSTEM)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Is Instance of	TDMX_IS_INSTANCE_OF	RefToClass	FALSE	FALSE	FALSE	FALSE	TN_SYSTEMS	4

Systems Folder (TN_SYSTEMS_FOLDER)

No specific attributes

Functions (TN_FUNCTIONS)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Unique Identifier	TDMX_ID	Char	TRUE	TRUE	FALSE	FALSE		51
Revision	REVISION	Char	TRUE	FALSE	TRUE	TRUE		11
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Function State	TDMX_FUNCTION_STATE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Function State (TN_FUNCTION_STATE)	4
Owner	TDMX_OWNER	LookUpTable	FALSE	FALSE	FALSE	FALSE	Function Owner (TN_FUNCTION_OWNER)	4
Type	TDMX_TYPE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Function Type (TN_FUNCTION_TYPE)	4
Duration	TDMX_DURATION	Double	FALSE	FALSE	FALSE	FALSE		8
Time Out	TDMX_TIME_OUT	Double	FALSE	FALSE	FALSE	FALSE		8
RoseRT ID	TDMX_ROSERTID	Char	FALSE	FALSE	FALSE	FALSE		21

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Phase	PHASE	LookUpTable	FALSE	FALSE	TRUE	FALSE	Phase (PHASE)	4
Previous Revision	PAR_REVISION	Char	FALSE	FALSE	TRUE	TRUE		11
Units of Measure	TDM_UOM	LookUpTable	FALSE	FALSE	FALSE	FALSE	Units of Measure (TDM_UNIT_OF_MEASURE)	4
Approval Date	APPROVAL_DATE	Date	FALSE	FALSE	TRUE	FALSE		8
Effective From	EFFECTIVE_FROM	EffectiveDateFrom	FALSE	FALSE	TRUE	FALSE		8
Effective Until	EFFECTIVE_UNTIL	EffectiveDateUntil	FALSE	FALSE	TRUE	FALSE		8
Under Operation	UNDER_OPERATION	SmallInt	FALSE	FALSE	TRUE	FALSE		2
First revision creator	TDM_ORG_USER_ID	RefToClass	FALSE	FALSE	FALSE	TRUE	Users (USERS)	4
Date of first revision creation	TDM_ORG_CREATEDATE	TimeStamp	FALSE	FALSE	FALSE	FALSE		8
User which approved	TDM_APPROVED_BY	RefToClass	FALSE	FALSE	FALSE	TRUE	Users (USERS)	4
Security level outside flow proc	TDM_SF_SECURE_LVL	LookUpTable	FALSE	TRUE	TRUE	TRUE	Security Level outside workflow (TDM_SF_SECUR_LEV)	4
Secured By	TDM_SECURED_BY	Memo	FALSE	FALSE	FALSE	FALSE		16
File Type	FILE_TYPE	LookUpTable	FALSE	FALSE	TRUE	FALSE	File Type (FILE_TYPE)	4
File Name	FILE_NAME	Char	FALSE	FALSE	TRUE	FALSE		129
Directory	DIRECTORY	Char	FALSE	FALSE	TRUE	FALSE		256
Application Reference File Name	CAD_REF_FILE_NAME	Char	FALSE	FALSE	TRUE	FALSE		129
Cad Directory Name	CAD_REF_DIRECTORY	Char	FALSE	FALSE	TRUE	FALSE		256
CAD dirty flag	TDM_CAD_DIRTYFLAG	Integer	FALSE	FALSE	FALSE	FALSE		4
Component name	TDM_COMPONENT_NAME	Char	FALSE	FALSE	FALSE	TRUE		256
Comment	TDMX_COMMENT	Char	FALSE	FALSE	FALSE	FALSE		21

Function (TN_FUNCTION)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Is Instance of	TDMX_IS_INSTANCE_OF	RefToClass	FALSE	FALSE	FALSE	FALSE	Functions (TN_FUNCTIONS)	4

Functions Folder (TN_FUNCTIONS_FOLDER)

No specific attributes

Contacts (TN_CONTACTS)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
ID	CN_ID	Char	TRUE	FALSE	FALSE	FALSE		21
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4

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Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Secured By	TDM_SECURED_BY	Memo	FALSE	FALSE	FALSE	FALSE		16

Contact (TN_CONTACT)

No specific attributes

History (TN_HISTORY)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Link to CLASS_ID	CN_CLASS_ID	SmallInt	TRUE	FALSE	FALSE	FALSE		2
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Link to Object ID	CN_OBJECT_ID	Integer	FALSE	FALSE	FALSE	FALSE		4
User ID	CN_USER_ID	RefToClass	FALSE	FALSE	FALSE	FALSE	Users (USERS)	4
User NT ID	CN_USER_NT_ID	Char	FALSE	FALSE	FALSE	FALSE		51
Machine Name	CN_MACHINE_NAME	Char	FALSE	FALSE	FALSE	FALSE		51
Alert	CN_ALERT	LookUpTable	FALSE	FALSE	FALSE	FALSE	Alert (TN_ALERT)	4
Hook Operation	CN_HOOK_OPERATION	Char	FALSE	FALSE	FALSE	FALSE		101
Operation	CN_OPERATION	LookUpTable	FALSE	FALSE	FALSE	FALSE	Operations (TN_OPERATIONS)	4
User Name	CN_USER_NAME	Char	FALSE	FALSE	FALSE	FALSE		101
Description	CN_DESCRIPTION	Memo	FALSE	FALSE	FALSE	FALSE		16
Secured By	TDM_SECURED_BY	Memo	FALSE	FALSE	FALSE	FALSE		16

Electronic Record (TN_ELECTRONIC_RECORD)

No specific attributes

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Admin (TN_ADMIN)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
ID	CN_ID	Char	TRUE	FALSE	FALSE	FALSE		21
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Subject	CN_SUBJECT	Char	FALSE	FALSE	FALSE	FALSE		256
Secured By	TDM_SECURED_BY	Memo	FALSE	FALSE	FALSE	FALSE		16

Settings (TN_SETTING)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Section	CN_SECTION	Char	FALSE	FALSE	FALSE	FALSE		256
First Value	CN_VALUE_1	Char	FALSE	FALSE	FALSE	FALSE		256
Second Value	CN_VALUE_2	Char	FALSE	FALSE	FALSE	FALSE		256
Third Value	CN_VALUE_3	Char	FALSE	FALSE	FALSE	FALSE		256
User ID	CN_USER_ID	RefToClass	FALSE	FALSE	FALSE	FALSE	Users (USERS)	4
Instructions	CN_INSTRUCTIONS	Memo	FALSE	FALSE	FALSE	FALSE		16
Fourth Value	CN_VALUE_4	Char	FALSE	FALSE	FALSE	FALSE		256

Admin Setting (TN_ADMIN_SETTING)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Section	CN_SECTION	Char	FALSE	FALSE	FALSE	FALSE		256
First Value	CN_VALUE_1	Char	FALSE	FALSE	FALSE	FALSE		256
Second Value	CN_VALUE_2	Char	FALSE	FALSE	FALSE	FALSE		256
Third Value	CN_VALUE_3	Char	FALSE	FALSE	FALSE	FALSE		256
User ID	CN_USER_ID	RefToClass	FALSE	FALSE	FALSE	FALSE	Users (USERS)	4
Instructions	CN_INSTRUCTIONS	Memo	FALSE	FALSE	FALSE	FALSE		16
Fourth Value	CN_VALUE_4	Char	FALSE	FALSE	FALSE	FALSE		256

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Value Description 1	CN_VALUE_DESCRIPTION_1	Char	FALSE	FALSE	FALSE	FALSE		256
Value Description 2	CN_VALUE_DESCRIPTION_2	Char	FALSE	FALSE	FALSE	FALSE		256
Value Description 3	CN_VALUE_DESCRIPTION_3	Char	FALSE	FALSE	FALSE	FALSE		256
Value Description 4	CN_VALUE_DESCRIPTION_4	Char	FALSE	FALSE	FALSE	FALSE		256
Value Long	CN_VALUE_LONG	Memo	FALSE	FALSE	FALSE	FALSE		16
Value Description Long	CN_VALUE_DESCRIPTION_LONG	Char	FALSE	FALSE	FALSE	FALSE		256

User Setting (TN_USER_SETTING)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Section	CN_SECTION	Char	FALSE	FALSE	FALSE	FALSE		256
First Value	CN_VALUE_1	Char	FALSE	FALSE	FALSE	FALSE		256
Second Value	CN_VALUE_2	Char	FALSE	FALSE	FALSE	FALSE		256
Third Value	CN_VALUE_3	Char	FALSE	FALSE	FALSE	FALSE		256
User ID	CN_USER_ID	RefToClass	FALSE	FALSE	FALSE	FALSE	Users (USERS)	4
Instructions	CN_INSTRUCTIONS	Memo	FALSE	FALSE	FALSE	FALSE		16
Fourth Value	CN_VALUE_4	Char	FALSE	FALSE	FALSE	FALSE		256
Value Description 1	CN_VALUE_DESCRIPTION_1	Char	FALSE	FALSE	FALSE	FALSE		256
Value Description 2	CN_VALUE_DESCRIPTION_2	Char	FALSE	FALSE	FALSE	FALSE		256
Value Description 3	CN_VALUE_DESCRIPTION_3	Char	FALSE	FALSE	FALSE	FALSE		256
Value Description 4	CN_VALUE_DESCRIPTION_4	Char	FALSE	FALSE	FALSE	FALSE		256
Value Long	CN_VALUE_LONG	Memo	FALSE	FALSE	FALSE	FALSE		16
Value Description Long	CN_VALUE_DESCRIPTION_LONG	Char	FALSE	FALSE	FALSE	FALSE		256

Settings Folder (TN_SETTINGS_FOLDER)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Section	CN_SECTION	Char	FALSE	FALSE	FALSE	FALSE		256
First Value	CN_VALUE_1	Char	FALSE	FALSE	FALSE	FALSE		256
Second Value	CN_VALUE_2	Char	FALSE	FALSE	FALSE	FALSE		256
Third Value	CN_VALUE_3	Char	FALSE	FALSE	FALSE	FALSE		256
User ID	CN_USER_ID	RefToClass	FALSE	FALSE	FALSE	FALSE	Users (USERS)	4
Instructions	CN_INSTRUCTIONS	Memo	FALSE	FALSE	FALSE	FALSE		16
Fourth Value	CN_VALUE_4	Char	FALSE	FALSE	FALSE	FALSE		256

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Flow Process (TDM_SF_PROCESS)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Name	TDM_NAME	Char	TRUE	FALSE	TRUE	FALSE		33
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	TRUE	FALSE		256
End Time	TDM_END_TIME	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Process Status	TDM_STATUS	LookUpTable	FALSE	TRUE	TRUE	TRUE	Flow Process Status (TDM_SF_PRC_STATUS)	4
Importance	TDM_IMPORTANCE	LookUpTable	FALSE	TRUE	TRUE	FALSE	Flow Item Importance (TDM_IMPORTANCE)	4
Time Limit	TDM_TIME_LIMIT	Object	FALSE	FALSE	TRUE	FALSE		8
Security level of new attached o	TDM_SF_SECURE_LVL	LookUpTable	FALSE	TRUE	TRUE	FALSE	Security Level outside workflow (TDM_SF_SECUR_LEV)	4
Work directory in Review Vault	TDM_WORK_DIRECTORY	Char	FALSE	FALSE	TRUE	FALSE		129
Mode of used Review Vault	TDM_RVW_VAULT_MODE	LookUpTable	FALSE	TRUE	TRUE	FALSE	Used Review Vault mode (TDM_SF_RVW_VLT_MOD)	4
Share Objects	TDM_SHARE_OBJECTS	LookUpTable	FALSE	FALSE	TRUE	FALSE	Limitations for links with objec (TDM_SF_LNK_LIMIT)	4
Alert is Enabled	TDM_ALERT_ENABLED	SmallInt	FALSE	FALSE	FALSE	FALSE		2
Alert Interval	TDM_ALERT_INTERVAL	Object	FALSE	FALSE	FALSE	FALSE		8
Alerted Users	TDM_ALERTED_USERS	Integer	FALSE	FALSE	FALSE	FALSE		4

General Process (TDM_SF_GEN_PROCESS)

No specific attributes

Requirement Change Proposal (TN_REQUIREMENT_CHANGE_PROP)

No specific attributes

IVVQ (TN_IVVQ)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
ID	CN_ID	Char	TRUE	FALSE	FALSE	FALSE		21
Revision	REVISION	Char	TRUE	FALSE	TRUE	TRUE		11

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State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		255
Secured By	TDM_SECURED_BY	Memo	FALSE	FALSE	FALSE	FALSE		
Phase	PHASE	LookUpTable	FALSE	FALSE	TRUE	FALSE	Phase (PHASE)	
Previous Revision	PAR_REVISION	Char	FALSE	FALSE	TRUE	TRUE		11
Approval Date	APPROVAL_DATE	Date	FALSE	FALSE	TRUE	FALSE		
Effective From	EFFECTIVE_FROM	EffectiveDateFrom	FALSE	FALSE	TRUE	FALSE		
Effective Until	EFFECTIVE_UNTIL	EffectiveDateUntil	FALSE	FALSE	TRUE	FALSE		
Under Operation	UNDER_OPERATION	Integer	FALSE	FALSE	TRUE	FALSE		2
First revision creator	TDM_ORG_USER_ID	RefToClass	FALSE	FALSE	FALSE	TRUE	Users (USERS)	
Date of first revision creation	TDM_ORG_CREATEDATE	TimeStamp	FALSE	FALSE	FALSE	FALSE		
User which approved	TDM_APPROVED_BY	RefToClass	FALSE	FALSE	FALSE	TRUE	Users (USERS)	
Name	TDMX_NAME	Char	FALSE	FALSE	TRUE	FALSE		255
XML_VIEWER	XML_VIEWER	URL	FALSE	FALSE	FALSE	FALSE		
XML_VIEWER2	XML_VIEWER2	URL	FALSE	FALSE	FALSE	FALSE		
XML_VIEWER3	XML_VIEWER3	URL	FALSE	FALSE	FALSE	FALSE		
TDMX_LOCKED_BY	TDMX_LOCKED_BY	Char	FALSE	FALSE	FALSE	FALSE		255

IVVQ Folder (TN_IVVQ_FOLDER)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Comment	TDMX_IVVQ_COMMENT	Memo	FALSE	FALSE	FALSE	FALSE		

IVVQ Chapter (TN_IVVQ_CHAPTER)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Comment	TDMX_IVVQ_COMMENT	Memo	FALSE	FALSE	FALSE	FALSE		

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IVVQ Information (TN_IVVQ_INFORMATION)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Maturity Stage	TDMX_MATURITY_STAGE	LookUpTable	FALSE	FALSE	FALSE	FALSE		
Information	TDMX_INFORMATION	URL	FALSE	FALSE	FALSE	FALSE		

IVVQ Matrix Item (TN_IVVQ_MATRIX_ITEM)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Maturity Stage	TDMX_MATURITY_STAGE	LookUpTable	FALSE	FALSE	FALSE	FALSE		
Verification Status	TDMX_VERIFICATION_STATUS	LookUpTable	FALSE	FALSE	FALSE	FALSE		

IVVQ Module (TN_IVVQ_MODULE)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
File Type	FILE_TYPE	LookUpTable	FALSE	FALSE	TRUE	FALSE		
File Name	FILE_NAME	Char	FALSE	FALSE	TRUE	FALSE		128
DIRECTORY	DIRECTORY	Char	FALSE	FALSE	TRUE	FALSE		255
CAD_REF_FILE_NAME	CAD_REF_FILE_NAME	Char	FALSE	FALSE	TRUE	FALSE		128
CAD_REF_DIRECTORY	CAD_REF_DIRECTORY	Char	FALSE	FALSE	TRUE	FALSE		255
TDM_CAD_DIRTYFLAG	TDM_CAD_DIRTYFLAG	Integer	FALSE	FALSE	FALSE	FALSE		
TDM_COMPONENT_NAME	TDM_COMPONENT_NAME	Char	FALSE	FALSE	FALSE	TRUE		255
Maturity Stage	TDMX_MATURITY_STAGE	LookUpTable	FALSE	FALSE	FALSE	FALSE		
Comment	TDMX_IVVQ_COMMENT	Memo	FALSE	FALSE	FALSE	FALSE		

IVVQ Result (TN_IVVQ_RESULT)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
File Type	FILE_TYPE	LookUpTable	FALSE	FALSE	TRUE	FALSE		
File Name	FILE_NAME	Char	FALSE	FALSE	TRUE	FALSE		128
DIRECTORY	DIRECTORY	Char	FALSE	FALSE	TRUE	FALSE		255
CAD_REF_FILE_NAME	CAD_REF_FILE_NAME	Char	FALSE	FALSE	TRUE	FALSE		128
CAD_REF_DIRECTORY	CAD_REF_DIRECTORY	Char	FALSE	FALSE	TRUE	FALSE		255

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TDM_CAD_DIRTYFLAG	TDM_CAD_DIRTYFLAG	Integer	FALSE	FALSE	FALSE	FALSE		
TDM_COMPONENT_NAME	TDM_COMPONENT_NAME	Char	FALSE	FALSE	FALSE	TRUE		255
Maturity Stage	TDMX_MATURITY_STAGE	LookUpTable	FALSE	FALSE	FALSE	FALSE		
Comment	TDMX_IVVQ_COMMENT	Memo	FALSE	FALSE	FALSE	FALSE		
Test Result Description	TDMX_TEST_RESULT_DESC	Memo	FALSE	FALSE	FALSE	FALSE		
Test Result File Pathname	TDMX_TR_PATHNAME	Char	FALSE	FALSE	FALSE	FALSE		255
Test Result File Name	TDMX_TR_FILENAME	Char	FALSE	FALSE	FALSE	FALSE		150
Run Date	TDMX_RUN_DATE	Date	FALSE	FALSE	FALSE	FALSE		
Test Bed	TDMX_TEST_BED	Char	FALSE	FALSE	FALSE	FALSE		150
Tester Name	TDMX_TESTER_NAME	LookUpTable	FALSE	FALSE	FALSE	FALSE		
Global Test Result	TDMX_GLOBAL_TEST_RES	LookUpTable	FALSE	FALSE	FALSE	FALSE		
Test Objectives	TDMX_TEST_OBJECTIVES	Memo	FALSE	FALSE	FALSE	FALSE		

IVVQ Sheet (TN_IVVQ_SHEET)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
File Type	FILE_TYPE	LookUpTable	FALSE	FALSE	TRUE	FALSE		
File Name	FILE_NAME	Char	FALSE	FALSE	TRUE	FALSE		128
DIRECTORY	DIRECTORY	Char	FALSE	FALSE	TRUE	FALSE		255
CAD_REF_FILE_NAME	CAD_REF_FILE_NAME	Char	FALSE	FALSE	TRUE	FALSE		128
CAD_REF_DIRECTORY	CAD_REF_DIRECTORY	Char	FALSE	FALSE	TRUE	FALSE		255
TDM_CAD_DIRTYFLAG	TDM_CAD_DIRTYFLAG	Integer	FALSE	FALSE	FALSE	FALSE		
TDM_COMPONENT_NAME	TDM_COMPONENT_NAME	Char	FALSE	FALSE	FALSE	TRUE		255
Maturity Stage	TDMX_MATURITY_STAGE	LookUpTable	FALSE	FALSE	FALSE	FALSE		
Method of Verification Description	TDMX_MOV_DESCRIPTION	Memo	FALSE	FALSE	FALSE	FALSE		
Method of Verification	TDMX_MOV	LookUpTable	FALSE	FALSE	FALSE	FALSE		
Verification Stage	TDMX_VERIFICATION_STAGE	LookUpTable	FALSE	FALSE	FALSE	FALSE		
Test Input	TDMX_TEST_INPUT	Memo	FALSE	FALSE	FALSE	FALSE		
Test Procedure Description	TDMX_TEST_PROC_DESC	Memo	FALSE	FALSE	FALSE	FALSE		

Overview (TN_OVERVIEW)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
ID	CN_ID	Char	TRUE	FALSE	FALSE	FALSE		21

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State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Secured By	TDM_SECURED_BY	Memo	FALSE	FALSE	FALSE	FALSE		

Overview Folder (TN_OVERVIEW_FOLDER)

No specific attributes

Decisions (TN_DECISIONS)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
ID	CN_ID	Char	TRUE	FALSE	FALSE	FALSE		21
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Secured By	TDM_SECURED_BY	Memo	FALSE	FALSE	FALSE	FALSE		16
Content	TDMX_CONTENT	Memo	FALSE	FALSE	FALSE	FALSE		16
Hidden	TDMX_HIDDEN	Boolean	FALSE	FALSE	FALSE	FALSE		2

Decision Folder (TN_DECISION_FOLDER)

No specific attributes

Decision (TN_DECISION)

No specific attributes

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Queries (TN_QUERIES)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Unique Identifier	CN_ID	Char	TRUE	FALSE	FALSE	FALSE		21
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Selection Class ID	TDMX_SELECTION_CLASS_ID	SmallInt	FALSE	FALSE	FALSE	FALSE		2
Parent Class ID	TDMX_PARENT_CLASS_ID	SmallInt	FALSE	FALSE	FALSE	FALSE		2
Query XML	TDMX_QUERY_XML	Memo	FALSE	FALSE	FALSE	FALSE		16
Query Title	TDMX_QUERY_TITLE	Char	FALSE	FALSE	FALSE	FALSE		201

Query Root (TN_QUERY_ROOT)

No specific attributes

Query Link (TN_QUERY_LINK)

No specific attributes

Click on *Next*

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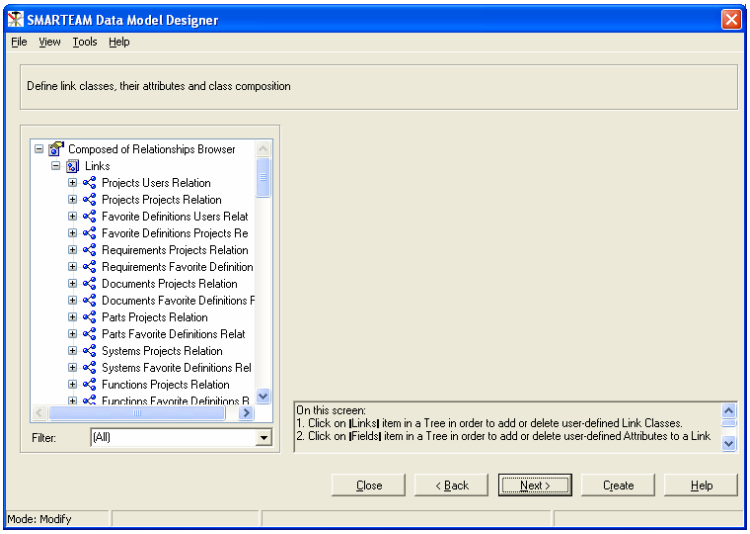
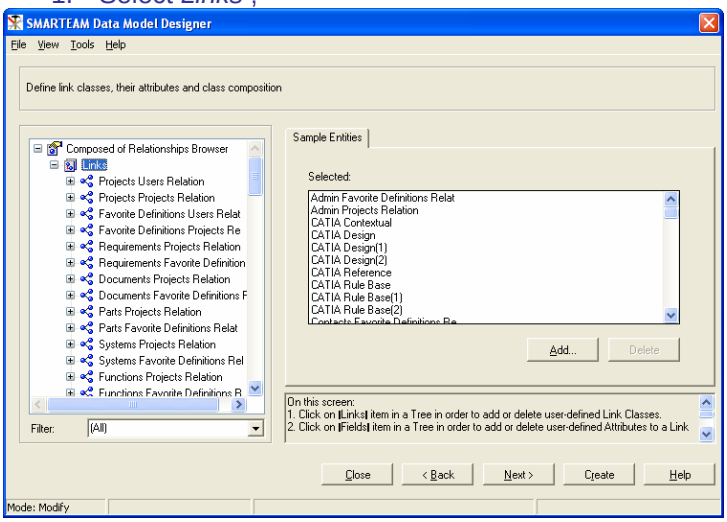
7. 5th step : Customize the links



7.1. Create Logical links

By default, ENOVIA SmarTeam creates logical links. For example, all the possible logical links which the first class is *Projects* are already created and cannot be removed.
In CSE data model there are logical links to add.

1. Select *Links* ;



2. and click on *Add* ;

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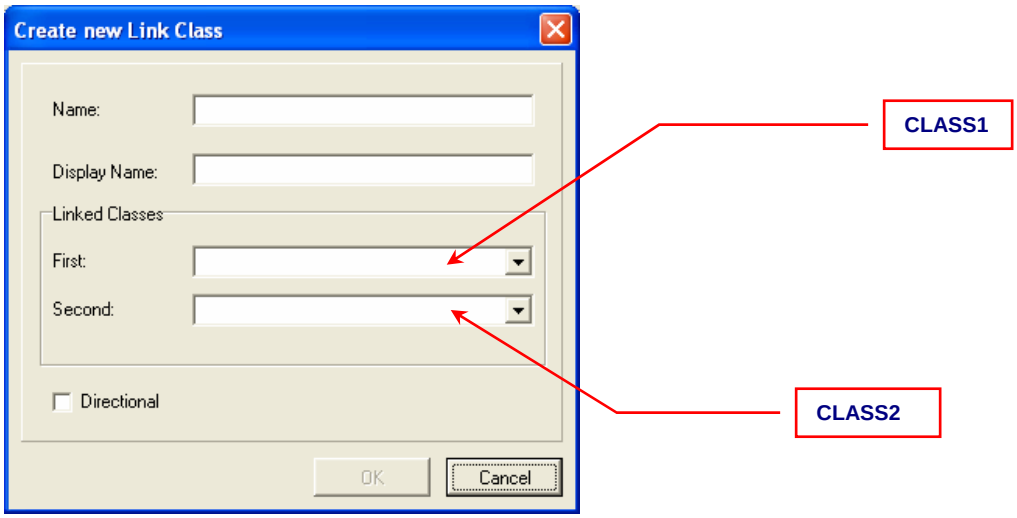
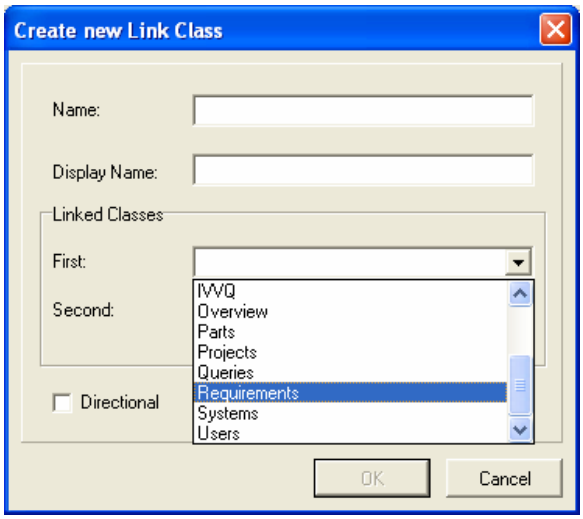
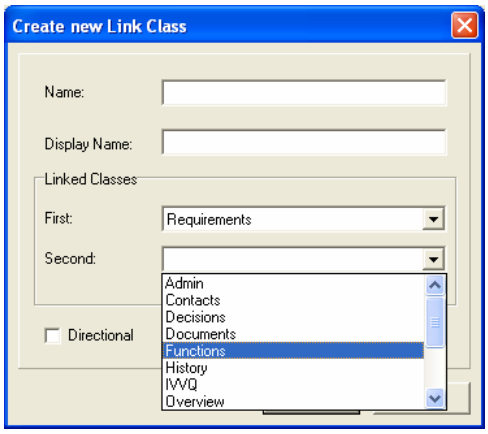


3. Select the first class in the field *First* ;



4. Select the second class in the field *Second* ;



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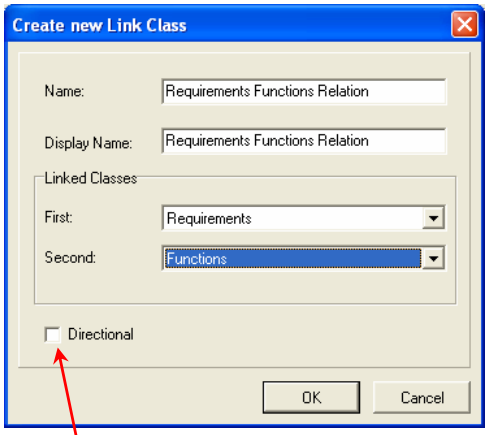
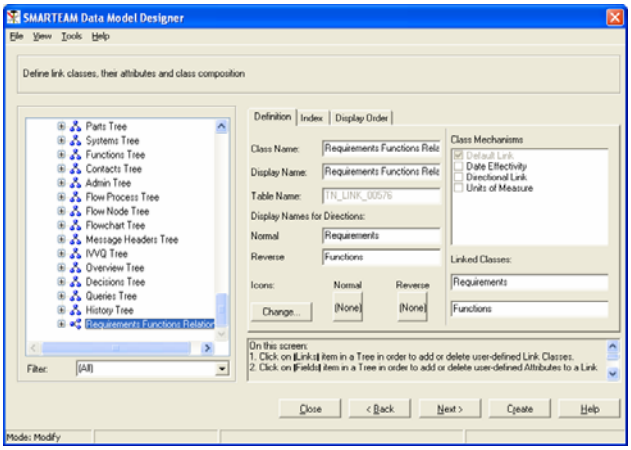
5. The *Name* is automatically filled. Do not modify it. By default the *Display Name* is the same than the *Name*, you can modify it. In CSE all the logical links are bi-directional. So the checkbox *Directional* has always to be unchecked.



Always unchecked



Apply the parameters of the below table.

The rows in grey concerns the links which exist by default and were not be modified. These links are not detailed in the following tables. Pay your attention on the white rows.

LINKCLASS	CLASS1	CLASS2
Projects Users Relation (TN_LINK_00007)	Projects (TN_PROJECTS)	Users (USERS)
Projects Projects Relation (TN_LINK_00008)	Projects (TN_PROJECTS)	Projects (TN_PROJECTS)
Favorite Definitions Users Relat (TN_LINK_00030)	Favorite Definitions (TDM_FAVORITES)	Users (USERS)
Favorite Definitions Projects Re (TN_LINK_00031)	Favorite Definitions (TDM_FAVORITES)	Projects (TN_PROJECTS)
Requirements Projects Relation (TN_LINK_00055)	Requirements (TN_REQUIREMENTS)	Projects (TN_PROJECTS)
Requirements Favorite Definition (TN_LINK_00056)	Requirements (TN_REQUIREMENTS)	Favorite Definitions (TDM_FAVORITES)
Documents Projects Relation (TN_LINK_00059)	Documents (TN_DOCUMENTS)	Projects (TN_PROJECTS)
Documents Favorite Definitions R (TN_LINK_00060)	Documents (TN_DOCUMENTS)	Favorite Definitions (TDM_FAVORITES)
Parts Projects Relation (TN_LINK_00085)	Parts (TN_PARTS)	Projects (TN_PROJECTS)
Parts Favorite Definitions Relat (TN_LINK_00086)	Parts (TN_PARTS)	Favorite Definitions (TDM_FAVORITES)
Systems Projects Relation (TN_LINK_00089)	Systems (TN_SYSTEMS)	Projects (TN_PROJECTS)
Systems Favorite Definitions Rel (TN_LINK_00090)	Systems (TN_SYSTEMS)	Favorite Definitions (TDM_FAVORITES)
Functions Projects Relation (TN_LINK_00093)	Functions (TN_FUNCTIONS)	Projects (TN_PROJECTS)
Functions Favorite Definitions R (TN_LINK_00094)	Functions (TN_FUNCTIONS)	Favorite Definitions (TDM_FAVORITES)
Contacts Projects Relation (TN_LINK_00097)	Contacts (TN_CONTACTS)	Projects (TN_PROJECTS)
Contacts Favorite Definitions Re (TN_LINK_00098)	Contacts (TN_CONTACTS)	Favorite Definitions (TDM_FAVORITES)
History Projects Relation (TN_LINK_00101)	History (TN_HISTORY)	Projects (TN_PROJECTS)
History Favorite Definitions Rel (TN_LINK_00102)	History (TN_HISTORY)	Favorite Definitions (TDM_FAVORITES)
Admin Projects Relation (TN_LINK_00105)	Admin (TN_ADMIN)	Projects (TN_PROJECTS)
Admin Favorite Definitions Relat (TN_LINK_00106)	Admin (TN_ADMIN)	Favorite Definitions (TDM_FAVORITES)
Systems Documents Relation (TN_LINK_00148)	Systems (TN_SYSTEMS)	Documents (TN_DOCUMENTS)
Systems Functions Relation (TN_LINK_00150)	Systems (TN_SYSTEMS)	Functions (TN_FUNCTIONS)

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Functions Documents Relation (TN_LINK_00151)	Functions (TN_FUNCTIONS)	Documents (TN_DOCUMENTS)
Requirements Documents Relation (TN_LINK_00153)	Requirements (TN_REQUIREMENTS)	Documents (TN_DOCUMENTS)
Requirements Systems Relation (TN_LINK_00154)	Requirements (TN_REQUIREMENTS)	Systems (TN_SYSTEMS)
Requirements Functions Relation (TN_LINK_00155)	Requirements (TN_REQUIREMENTS)	Functions (TN_FUNCTIONS)
Requirements History Relation (TN_LINK_00156)	Requirements (TN_REQUIREMENTS)	History (TN_HISTORY)
Flow Process Favorite Definition (TN_LINK_00307)	Flow Process (TDM_SF_PROCESS)	Favorite Definitions (TDM_FAVORITES)
Requirements Requirements Relati (TN_LINK_00401)	Requirements (TN_REQUIREMENTS)	Requirements (TN_REQUIREMENTS)
Projects Flow Process Relation (TN_LINK_00499)	Projects (TN_PROJECTS)	Flow Process (TDM_SF_PROCESS)
IVVQ Projects Relation (TN_LINK_00502)	IVVQ (TN_IVVQ)	Projects (TN_PROJECTS)
IVVQ Favorite Definitions Relati (TN_LINK_00503)	IVVQ (TN_IVVQ)	Favorite Definitions (TDM_FAVORITES)
Overview Projects Relation (TN_LINK_00511)	Overview (TN_OVERVIEW)	Projects (TN_PROJECTS)
Overview Favorite Definitions Re (TN_LINK_00512)	Overview (TN_OVERVIEW)	Favorite Definitions (TDM_FAVORITES)
Decisions Projects Relation (TN_LINK_00516)	Decisions (TN_DECISIONS)	Projects (TN_PROJECTS)
Decisions Favorite Definitions R (TN_LINK_00517)	Decisions (TN_DECISIONS)	Favorite Definitions (TDM_FAVORITES)
Decisions Requirements Relation (TN_LINK_00522)	Decisions (TN_DECISIONS)	Requirements (TN_REQUIREMENTS)
Decisions Systems Relation (TN_LINK_00523)	Decisions (TN_DECISIONS)	Systems (TN_SYSTEMS)
Decisions Functions Relation (TN_LINK_00524)	Decisions (TN_DECISIONS)	Functions (TN_FUNCTIONS)
Decisions IVVQ Relation (TN_LINK_00525)	Decisions (TN_DECISIONS)	IVVQ (TN_IVVQ)
Decisions Overview Relation (TN_LINK_00526)	Decisions (TN_DECISIONS)	Overview (TN_OVERVIEW)
Overview Requirements Relation (TN_LINK_00527)	Overview (TN_OVERVIEW)	Requirements (TN_REQUIREMENTS)
Overview Systems Relation (TN_LINK_00528)	Overview (TN_OVERVIEW)	Systems (TN_SYSTEMS)
Overview Functions Relation (TN_LINK_00529)	Overview (TN_OVERVIEW)	Functions (TN_FUNCTIONS)
Overview IVVQ Relation (TN_LINK_00530)	Overview (TN_OVERVIEW)	IVVQ (TN_IVVQ)
IVVQ Requirements Relation (TN_LINK_00531)	IVVQ (TN_IVVQ)	Requirements (TN_REQUIREMENTS)
IVVQ Systems Relation (TN_LINK_00532)	IVVQ (TN_IVVQ)	Systems (TN_SYSTEMS)
IVVQ Functions Relation (TN_LINK_00533)	IVVQ (TN_IVVQ)	Functions (TN_FUNCTIONS)
Documents Decisions Relation (TN_LINK_00534)	Documents (TN_DOCUMENTS)	Decisions (TN_DECISIONS)
Documents Overview Relation (TN_LINK_00535)	Documents (TN_DOCUMENTS)	Overview (TN_OVERVIEW)
Documents IVVQ Relation (TN_LINK_00536)	Documents (TN_DOCUMENTS)	IVVQ (TN_IVVQ)
IVVQ IVVQ Relation (TN_LINK_00537)	IVVQ (TN_IVVQ)	IVVQ (TN_IVVQ)
Queries Projects Relation (TN_LINK_00556)	Queries (TN_QUERIES)	Projects (TN_PROJECTS)
QUERIES_FAVORIT (TN_LINK_00557)	Queries (TN_QUERIES)	Favorite Definitions (TDM_FAVORITES)
CATIA Design(1) (TDM_CAT_DESIGN_LNK0)	Functions (TN_FUNCTIONS)	Functions (TN_FUNCTIONS)
CATIA Rule Base(1) (TDM_CAT_RULEBASE_LNK0)	Functions (TN_FUNCTIONS)	Functions (TN_FUNCTIONS)
CATIA Design(2) (TDM_CAT_DESIGN_LNK1)	Systems (TN_SYSTEMS)	Systems (TN_SYSTEMS)
CATIA Rule Base(2) (TDM_CAT_RULEBASE_LNK1)	Systems (TN_SYSTEMS)	Systems (TN_SYSTEMS)
Parts Requirements Relation (TN_LINK_00565)	Parts (TN_PARTS)	Requirements (TN_REQUIREMENTS)
Parts Documents Relation (TN_LINK_00566)	Parts (TN_PARTS)	Documents (TN_DOCUMENTS)
Parts Systems Relation (TN_LINK_00568)	Parts (TN_PARTS)	Systems (TN_SYSTEMS)
Parts IVVQ Relation (TN_LINK_00569)	Parts (TN_PARTS)	IVVQ (TN_IVVQ)
Parts Decisions Relation (TN_LINK_00570)	Parts (TN_PARTS)	Decisions (TN_DECISIONS)

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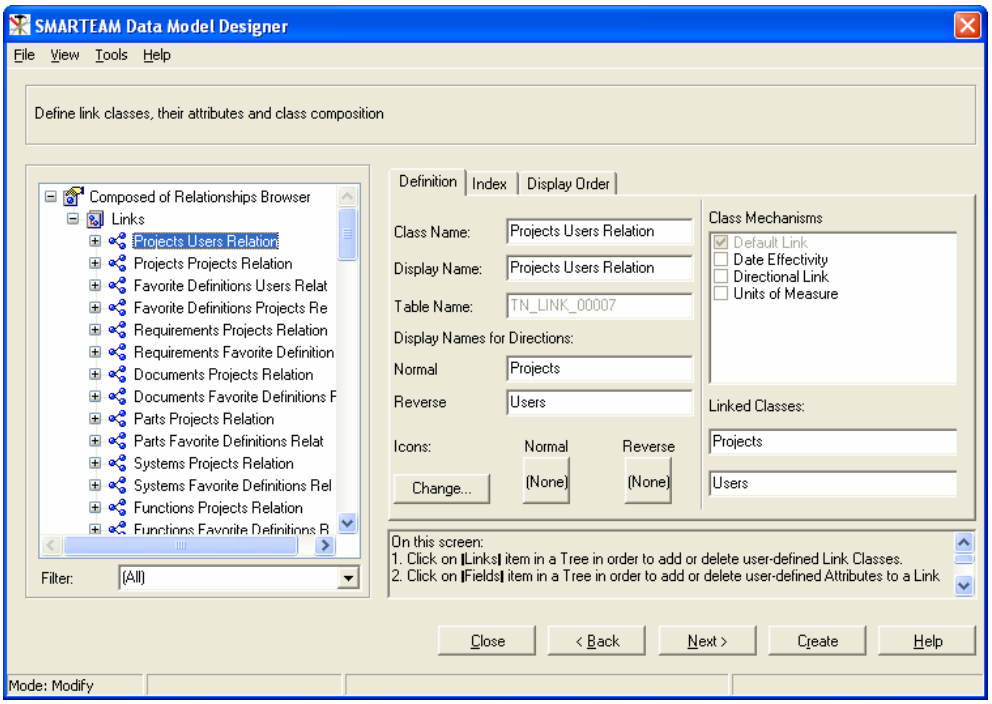
7.2. Links parameters



So as to update parameters on a link class, see the chapter Classes parameters.

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The *TABLENAME* is set up automatically. It cannot be modified.
About *CLASSTYPE* :
- *OneLevelLink* concerns logical links ;
- *HierLink* concerns hierarchical lins.

CLASSNAME	TABLENAME	CLASSTYPE	ENABLEDTOPLEVELASSIGNMENT	INDEXUNIQUE	MECHANISMS
Systems Documents Relation	TN_LINK_00148	OneLevelLink	FALSE	TRUE	Default Link
Systems Functions Relation	TN_LINK_00150	OneLevelLink	FALSE	TRUE	Default Link
Functions Documents Relation	TN_LINK_00151	OneLevelLink	FALSE	TRUE	Default Link
Requirements Documents Relation	TN_LINK_00153	OneLevelLink	FALSE	TRUE	Default Link
Requirements Systems Relation	TN_LINK_00154	OneLevelLink	FALSE	TRUE	Default Link
Requirements Functions Relation	TN_LINK_00155	OneLevelLink	FALSE	TRUE	Default Link
Requirements History Relation	TN_LINK_00156	OneLevelLink	FALSE	TRUE	Default Link
Requirements Requirements Relati	TN_LINK_00401	OneLevelLink	FALSE	TRUE	Default Link
Decisions Requirements Relation	TN_LINK_00522	OneLevelLink	FALSE	TRUE	Default Link
Decisions Systems Relation	TN_LINK_00523	OneLevelLink	FALSE	TRUE	Default Link
Decisions Functions Relation	TN_LINK_00524	OneLevelLink	FALSE	TRUE	Default Link
Decisions IVVQ Relation	TN_LINK_00525	OneLevelLink	FALSE	TRUE	Default Link
Decisions Overview Relation	TN_LINK_00526	OneLevelLink	FALSE	TRUE	Default Link
Overview Requirements Relation	TN_LINK_00527	OneLevelLink	FALSE	TRUE	Default Link
Overview Systems Relation	TN_LINK_00528	OneLevelLink	FALSE	TRUE	Default Link
Overview Functions Relation	TN_LINK_00529	OneLevelLink	FALSE	TRUE	Default Link
Overview IVVQ Relation	TN_LINK_00530	OneLevelLink	FALSE	TRUE	Default Link
IVVQ Requirements Relation	TN_LINK_00531	OneLevelLink	FALSE	TRUE	Default Link
IVVQ Systems Relation	TN_LINK_00532	OneLevelLink	FALSE	TRUE	Default Link
IVVQ Functions Relation	TN_LINK_00533	OneLevelLink	FALSE	TRUE	Default Link
Documents Decisions Relation	TN_LINK_00534	OneLevelLink	FALSE	TRUE	Default Link
Documents Overview Relation	TN_LINK_00535	OneLevelLink	FALSE	TRUE	Default Link
Documents IVVQ Relation	TN_LINK_00536	OneLevelLink	FALSE	TRUE	Default Link
IVVQ IVVQ Relation	TN_LINK_00537	OneLevelLink	FALSE	TRUE	Default Link
Parts Requirements Relation	TN_LINK_00565	OneLevelLink	FALSE	TRUE	Default Link
Parts Documents Relation	TN_LINK_00566	OneLevelLink	FALSE	TRUE	Default Link
Parts Systems Relation	TN_LINK_00568	OneLevelLink	FALSE	TRUE	Default Link
Parts IVVQ Relation	TN_LINK_00569	OneLevelLink	FALSE	TRUE	Default Link
Parts Decisions Relation	TN_LINK_00570	OneLevelLink	FALSE	TRUE	Default Link

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CLASSNAME	TABLENAME	CLASSTYPE	ENABLEDTOPLEVELASSIGNMENT	INDEXUNIQUE	MECHANISMS
Requirements Tree	REQUIR_TREE	HierLink	FALSE	TRUE	Directional Link, Part Hierarchy
Documents Tree	DOCUMEN_TREE	HierLink	FALSE	TRUE	Directional Link, CATIA Composed of, CATIA Product
Parts Tree	PARTS_TREE	HierLink	FALSE	TRUE	Directional Link, Date Effectivity, Part Hierarchy, Units of Measure
Systems Tree	SYSTEMS_TREE	HierLink	FALSE	TRUE	Directional Link, Date Effectivity, CATIA Composed of, CATIA Product, Part Hierarchy, Units of Measure
Functions Tree	FUNCTIO_TREE	HierLink	FALSE	TRUE	Directional Link, Date Effectivity, CATIA Composed of, CATIA Product, Part Hierarchy, Units of Measure
IVVQ Tree	IVVQ_TREE	HierLink	FALSE	TRUE	Directional Link
Overview Tree	OVERVIE_TREE	HierLink	FALSE	TRUE	Directional Link
Decisions Tree	DECISIO_TREE	HierLink	FALSE	TRUE	Directional Link

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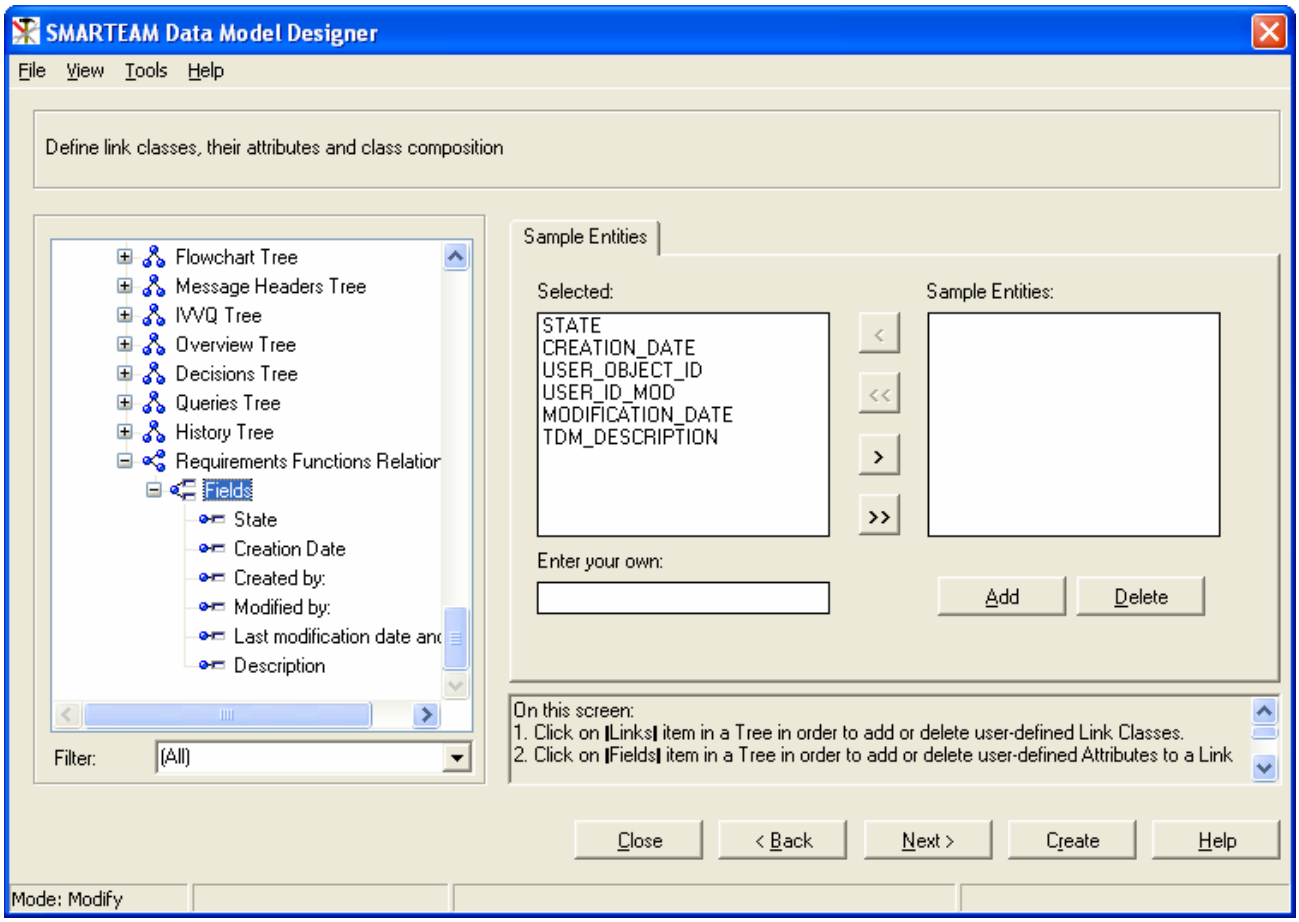
7.3. Add attribute on the links



So as to add an attribute on a link class, see the chapter 4th step : Add attribute on the classes.

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Apply the parameters of the below table. *OBLIGATORY and READONLY* are just indications. Do not pay attention for them. *OBLIGATORY* concerns attributes which are created by ENOVIA SmarTeam by default and do not have to be removed.

Systems Documents Relation (TN_LINK_00148)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Systems Functions Relation (TN_LINK_00150)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Link State	TDMX_LINK_STATE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link_State (TN_LINK_STATE)	4
Link Direction	TDMX_LINK_DIRECTION	Char	TRUE	FALSE	FALSE	FALSE		51
Bidirectional	TDMX_BIDIRECTIONAL	LookUpTable	TRUE	FALSE	FALSE	FALSE	Link Direction (TN_LINK_DIRECTION)	4
Link Type	TDMX_LINK_TYPE	LookUpTable	TRUE	FALSE	FALSE	FALSE	Sys-Fun Link Type (TN_SYS_FUN_LINK_TYPE)	4
Decision	TDMX_DECISION	Memo	FALSE	FALSE	FALSE	FALSE		16
Decision Ref	TDMX_DECISION_REF	RefToClass	FALSE	FALSE	FALSE	FALSE	Decision (TN_DECISION)	4
Comment	TDMX_COMMENT	Char	FALSE	FALSE	FALSE	FALSE		21

Functions Documents Relation (TN_LINK_00151)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8

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Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Requirements Documents Relation (TN_LINK_00153)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Requirements Systems Relation (TN_LINK_00154)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Link State	TDMX_LINK_STATE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link_State (TN_LINK_STATE)	4
Link Type	TDMX_LINK_TYPE	LookUpTable	TRUE	FALSE	FALSE	FALSE	Req-Sys Link Type (TN_REQ_SYS_LINK_TYPE)	4
Bidirectional	TDMX_BIDIRECTIONAL	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link Direction (TN_LINK_DIRECTION)	4
Link Direction	TDMX_LINK_DIRECTION	Char	TRUE	FALSE	FALSE	FALSE		51
Decision	TDMX_DECISION	Memo	FALSE	FALSE	FALSE	FALSE		16
Decision Ref	TDMX_DECISION_REF	RefToClass	FALSE	FALSE	FALSE	FALSE	Decision (TN_DECISION)	4

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Requirements Functions Relation (TN_LINK_00155)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Link State	TDMX_LINK_STATE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link_State (TN_LINK_STATE)	4
Link Direction	TDMX_LINK_DIRECTION	Char	TRUE	FALSE	FALSE	FALSE		51
Link Type	TDMX_LINK_TYPE	LookUpTable	TRUE	FALSE	FALSE	FALSE	Req-Fun Link Type (TN_REQ_FUN_LINK_TYPE)	4
Bidirectional	TDMX_BIDIRECTIONAL	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link Direction (TN_LINK_DIRECTION)	4
Decision Ref	TDMX_DECISION_REF	RefToClass	FALSE	FALSE	FALSE	FALSE	Decision (TN_DECISION)	4
Decision	TDMX_DECISION	Memo	FALSE	FALSE	FALSE	FALSE		16

Requirements History Relation (TN_LINK_00156)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Requirements Requirements Relation (TN_LINK_00401)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Link Type	TDMX_LINK_TYPE	LookUpTable	TRUE	FALSE	FALSE	FALSE	Req-Req Link Type (TN_REQ_REQ_LINK_TYPE)	4
Link Direction	TDMX_LINK_DIRECTION	Char	TRUE	FALSE	FALSE	FALSE		51
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4

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Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Link State	TDMX_LINK_STATE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link_State (TN_LINK_STATE)	4
Bidirectional	TDMX_BIDIRECTIONAL	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link Direction (TN_LINK_DIRECTION)	4
Decision	TDMX_DECISION	Memo	FALSE	FALSE	FALSE	FALSE		16
Decision Ref	TDMX_DECISION_REF	RefToClass	FALSE	FALSE	FALSE	FALSE	Decision (TN_DECISION)	4

Decisions Requirements Relation (TN_LINK_00522)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Decisions Systems Relation (TN_LINK_00523)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Decisions Functions Relation (TN_LINK_00524)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4

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Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Decisions IVVQ Relation (TN_LINK_00525)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Decisions Overview Relation (TN_LINK_00526)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Overview Requirements Relation (TN_LINK_00527)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

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Overview Systems Relation (TN_LINK_00528)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Overview Functions Relation (TN_LINK_00529)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Overview IVVQ Relation (TN_LINK_00530)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

IVVQ Requirements Relation (TN_LINK_00531)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4

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Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Decision	TDMX_DECISION	Memo	FALSE	FALSE	FALSE	FALSE		16
Decision Ref	TDMX_DECISION_REF	RefToClass	FALSE	FALSE	FALSE	FALSE	DECISION (TN_DECISION)	4
Link Type	TDMX_LINK_TYPE	LookUpTable	FALSE	FALSE	FALSE	FALSE	TN_IVV_REQ_LINK_TYPE	4
Link State	TDMX_LINK_STATE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link_State (TN_LINK_STATE)	4
Bidirectional	TDMX_BIDIRECTIONAL	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link Direction (TN_LINK_DIRECTION)	4
Link Direction	TDMX_LINK_DIRECTION	Char	FALSE	FALSE	FALSE	FALSE		51

IVVQ Systems Relation (TN_LINK_00532)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Link Type	TDMX_LINK_TYPE	LookUpTable	FALSE	FALSE	FALSE	FALSE	TN_IVV_SYS_LINK_TYPE	4
Decision	TDMX_DECISION	Memo	FALSE	FALSE	FALSE	FALSE		16
Decision Ref	TDMX_DECISION_REF	RefToClass	FALSE	FALSE	FALSE	FALSE	DECISION (TN_DECISION)	4
Link State	TDMX_LINK_STATE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link_State (TN_LINK_STATE)	4
Bidirectional	TDMX_BIDIRECTIONAL	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link Direction (TN_LINK_DIRECTION)	4
Link Direction	TDMX_LINK_DIRECTION	Char	FALSE	FALSE	FALSE	FALSE		51

IVVQ Functions Relation (TN_LINK_00533)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4

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Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Decision Ref	TDMX_DECISION_REF	RefToClass	FALSE	FALSE	FALSE	FALSE	DECISION (TN_DECISION)	4
Decision	TDMX_DECISION	Memo	FALSE	FALSE	FALSE	FALSE		16
Link Type	TDMX_LINK_TYPE	LookUpTable	FALSE	FALSE	FALSE	FALSE	IVV-Fun Link Type (TN_IVV_FUN_LINK_TYPE)	4
Link State	TDMX_LINK_STATE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link_State (TN_LINK_STATE)	4
Bidirectional	TDMX_BIDIRECTIONAL	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link Direction (TN_LINK_DIRECTION)	4
Link Direction	TDMX_LINK_DIRECTION	Char	FALSE	FALSE	FALSE	FALSE		51

Documents Decisions Relation (TN_LINK_00534)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Documents Overview Relation (TN_LINK_00535)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Documents IVVQ Relation (TN_LINK_00536)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8

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Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

IVVQ IVVQ Relation (TN_LINK_00537)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Link Type	TDMX_LINK_TYPE	LookUpTable	FALSE	FALSE	FALSE	FALSE	IVV-IVV Link Type (TN_IVV_IVV_LINK_TYPE)	4
Decision	TDMX_DECISION	Memo	FALSE	FALSE	FALSE	FALSE		16
Decision Ref	TDMX_DECISION_REF	RefToClass	FALSE	FALSE	FALSE	FALSE	DECISION (TN_DECISION)	4
Link State	TDMX_LINK_STATE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link_State (TN_LINK_STATE)	4
Bidirectional	TDMX_BIDIRECTIONAL	LookUpTable	FALSE	FALSE	FALSE	FALSE	Link Direction (TN_LINK_DIRECTION)	4
Link Direction	TDMX_LINK_DIRECTION	Char	FALSE	FALSE	FALSE	FALSE		51

Parts Requirements Relation (TN_LINK_00565)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Parts Documents Relation (TN_LINK_00566)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE

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State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Parts Systems Relation (TN_LINK_00568)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Parts IVVQ Relation (TN_LINK_00569)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Parts Decisions Relation (TN_LINK_00570)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4

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Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256

Requirements Tree (REQUIR_TREE)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Find number	TDMX_FIND_NUMBER	Char	TRUE	FALSE	FALSE	FALSE		51
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Quantity	TDMX_QUANTITY	Double	FALSE	FALSE	FALSE	FALSE		8
Reference Designator	TDMX_REFERENCE_DESIGNATOR	Memo	FALSE	FALSE	FALSE	FALSE		16
Operation sequence	TDMX_OPERATION_SEQUENCE	Char	FALSE	FALSE	FALSE	FALSE		51
TDMX_ORDERING	TDMX_ORDERING	Char	FALSE	FALSE	FALSE	FALSE		21
Decision	TDMX_DECISION	Memo	FALSE	FALSE	FALSE	FALSE		16
Decision Ref	TDMX_DECISION_REF	RefToClass	FALSE	FALSE	FALSE	FALSE	DECISION (TN_DECISION)	4
Link Type	TDMX_LINK_TYPE	LookUpTable	FALSE	FALSE	FALSE	FALSE	TN_REQ_TREE_LINK_TYPE	4

Documents Tree (DOCUMEN_TREE)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
TDMX_ORDERING	TDMX_ORDERING	Char	FALSE	FALSE	FALSE	FALSE		21

Parts Tree (PARTS_TREE)

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ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Find number	TDM_FIND_NUMBER	Char	TRUE	FALSE	FALSE	FALSE		51
Operation sequence	TDM_OPERATION_SEQUENCE	Char	TRUE	FALSE	FALSE	FALSE		51
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Effective from	EFFECTIVE_FROM	EffectiveDateFrom	FALSE	FALSE	TRUE	FALSE		8
Effective until	EFFECTIVE_UNTIL	EffectiveDateUntil	FALSE	FALSE	TRUE	FALSE		8
Quantity	TDM_QUANTITY	Double	FALSE	FALSE	FALSE	FALSE		8
Reference Designator	TDM_REFERENCE_DESIGNATOR	Memo	FALSE	FALSE	FALSE	FALSE		16
Units of Measure	TDM_UOM	LookUpTable	FALSE	FALSE	FALSE	FALSE	Units of Measure (TDM_UNIT_OF_MEASURE)	4

Systems Tree (SYSTEMS_TREE)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Find number	TDMX_FIND_NUMBER	Char	TRUE	FALSE	FALSE	FALSE		51
Operation sequence	TDMX_OPERATION_SEQUENCE	Char	TRUE	FALSE	FALSE	FALSE		51
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Effective from	EFFECTIVE_FROM	EffectiveDateFrom	FALSE	FALSE	TRUE	FALSE		8
Effective until	EFFECTIVE_UNTIL	EffectiveDateUntil	FALSE	FALSE	TRUE	FALSE		8
Quantity	TDMX_QUANTITY	Double	FALSE	FALSE	FALSE	FALSE		8
Reference Designator	TDMX_REFERENCE_DESIGNATOR	Memo	FALSE	FALSE	FALSE	FALSE		16
Units of Measure	TDM_UOM	LookUpTable	FALSE	FALSE	FALSE	FALSE	Units of Measure (TDM_UNIT_OF_MEASURE)	4
TDMX_ORDERING	TDMX_ORDERING	Char	FALSE	FALSE	FALSE	FALSE		21
Decision	TDMX_DECISION	Memo	FALSE	FALSE	FALSE	FALSE		16
Decision Ref	TDMX_DECISION_REF	RefToClass	FALSE	FALSE	FALSE	FALSE	DECISION (TN_DECISION)	4
Link Type	TDMX_LINK_TYPE	LookUpTable	FALSE	FALSE	FALSE	FALSE	TN_SYS_TREE_LINK_TYPE	4

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Functions Tree (FUNCTIO_TREE)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
Operation sequence	TDMX_OPERATION_SEQUENCE	Char	TRUE	FALSE	FALSE	FALSE		51
Find number	TDMX_FIND_NUMBER	Char	FALSE	FALSE	FALSE	FALSE		51
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Effective from	EFFECTIVE_FROM	EffectiveDateFrom	FALSE	FALSE	TRUE	FALSE		8
Effective until	EFFECTIVE_UNTIL	EffectiveDateUntil	FALSE	FALSE	TRUE	FALSE		8
Quantity	TDMX_QUANTITY	Double	FALSE	FALSE	FALSE	FALSE		8
Reference Designator	TDMX_REFERENCE_DESIGNATOR	Memo	FALSE	FALSE	FALSE	FALSE		16
Units of Measure	TDM_UOM	LookUpTable	FALSE	FALSE	FALSE	FALSE	Units of Measure (TDM_UNIT_OF_MEASURE)	4
TDMX_ORDERING	TDMX_ORDERING	Char	FALSE	FALSE	FALSE	FALSE		21
Decision	TDMX_DECISION	Memo	FALSE	FALSE	FALSE	FALSE		16
Decision Ref	TDMX_DECISION_REF	RefToClass	FALSE	FALSE	FALSE	FALSE	DECISION (TN_DECISION)	4
Link Type	TDMX_LINK_TYPE	LookUpTable	FALSE	FALSE	FALSE	FALSE	Fun Tree Link Type (TN_FUN_TREE_LINK_TYPE)	4

IVVQ Tree (IVVQ_TREE)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
TDMX_ORDERING	TDMX_ORDERING	Char	FALSE	FALSE	FALSE	FALSE		21
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
Decision	TDMX_DECISION	Memo	FALSE	FALSE	FALSE	FALSE		16
Decision Ref	TDMX_DECISION_REF	RefToClass	FALSE	FALSE	FALSE	FALSE	DECISION (TN_DECISION)	4
Link Type	TDMX_LINK_TYPE	LookUpTable	FALSE	FALSE	FALSE	FALSE	TN_IVV_TREE_LINK_TYPE	4

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Overview Tree (OVERVIE_TREE)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
TDMX_ORDERING	TDMX_ORDERING	Char	FALSE	FALSE	FALSE	FALSE		21

Decisions Tree (DECISIO_TREE)

ATTRIBUTEEXTERNALNAME	ATTRIBUTEINTERNALNAME	ATTRIBUTETYPE	INPRIMARYIDENTIFIER	MANDATORY	OBLIGATORY	READONLY	REFERENCEDCLASS	SIZE
State	STATE	LookUpTable	FALSE	FALSE	TRUE	TRUE	State (STATE)	4
Creation Date	CREATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Created by:	USER_OBJECT_ID	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Modified by:	USER_ID_MOD	RefToClass	FALSE	FALSE	TRUE	TRUE	Users (USERS)	4
Last modification date and time	MODIFICATION_DATE	TimeStamp	FALSE	FALSE	TRUE	FALSE		8
Description	TDM_DESCRIPTION	Char	FALSE	FALSE	FALSE	FALSE		256
TDMX_ORDERING	TDMX_ORDERING	Char	FALSE	FALSE	FALSE	FALSE		21

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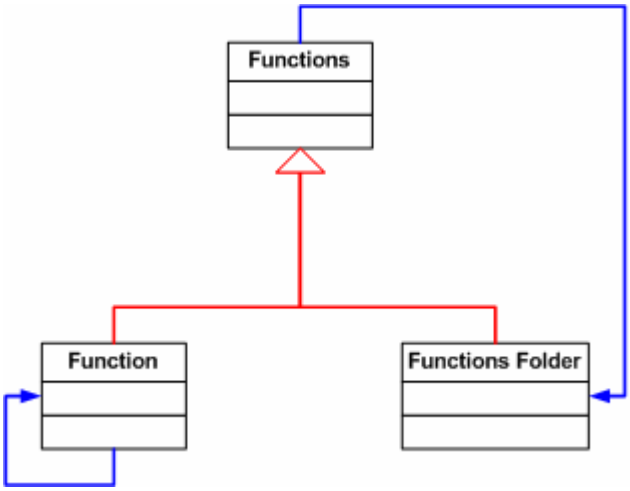
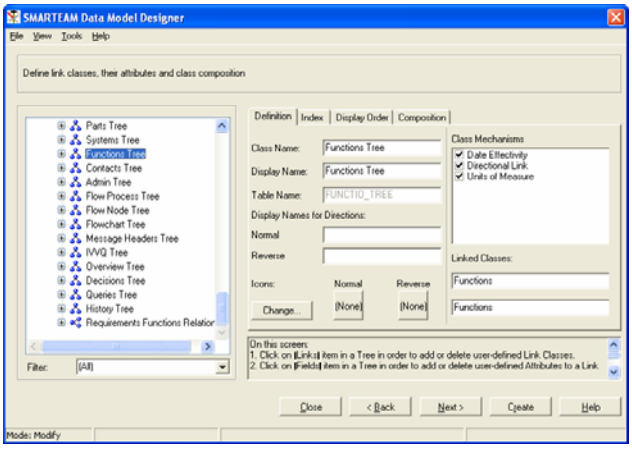
7.4. Define the compositions

Example :



1. Select the *Functions Tree* ;



2. Click on *Composition* tab ;

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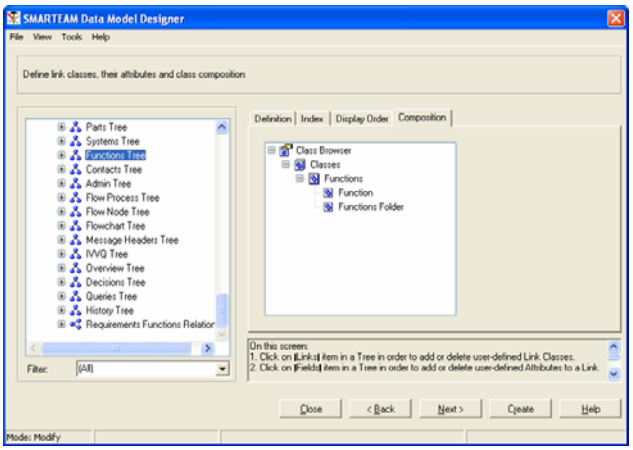

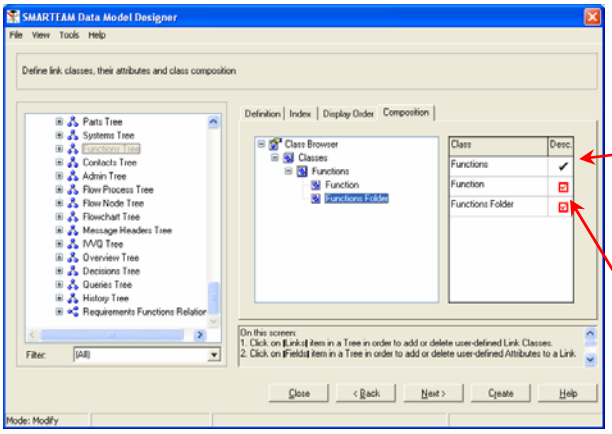

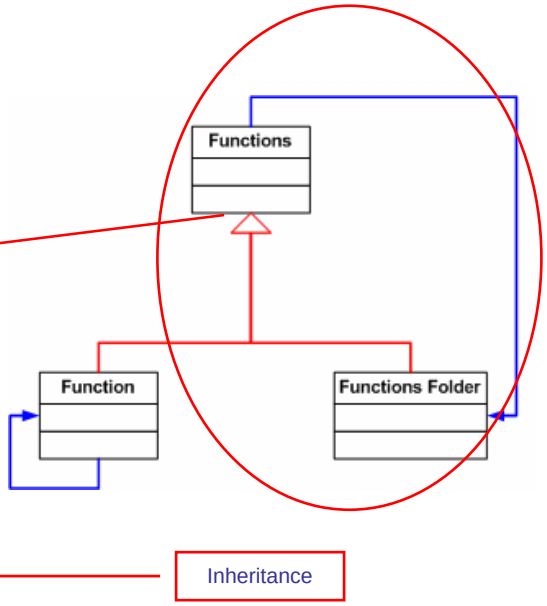

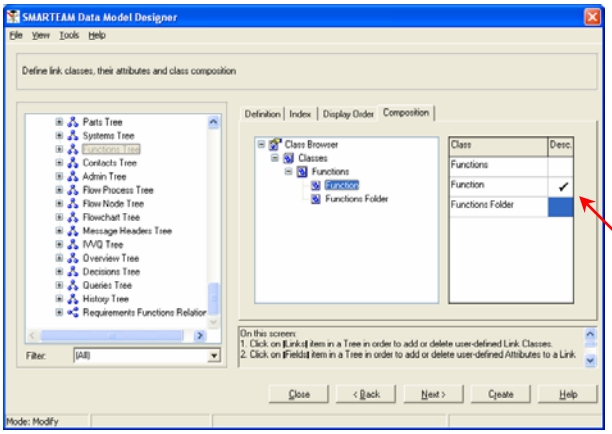

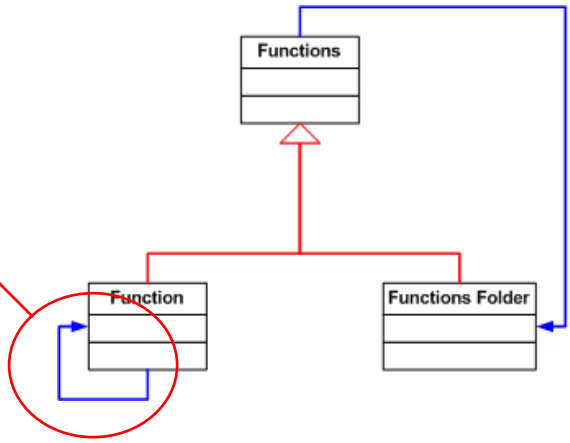

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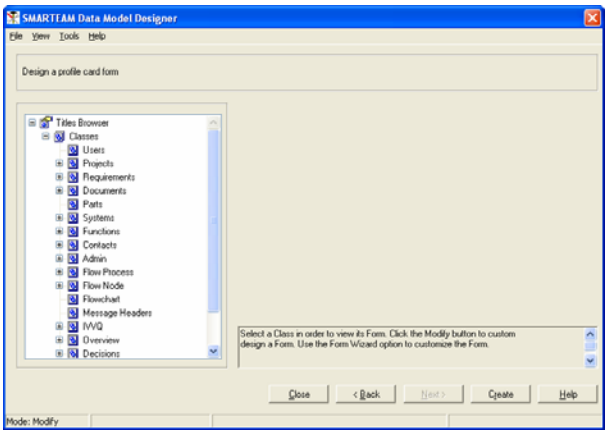
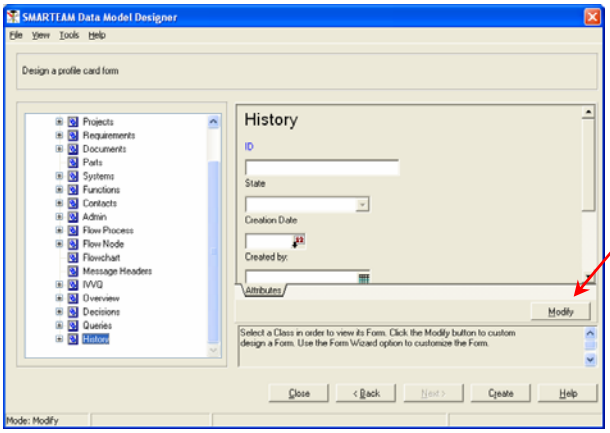
8. 6th step : Configure the profile cards

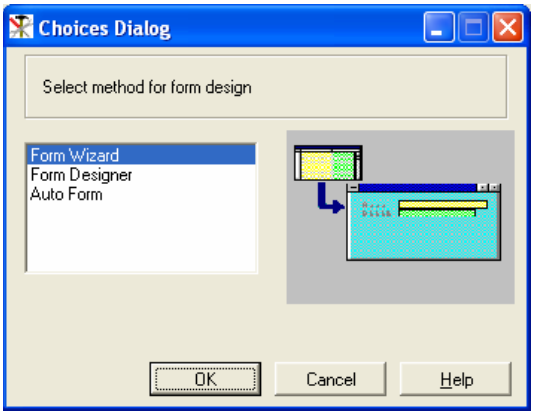


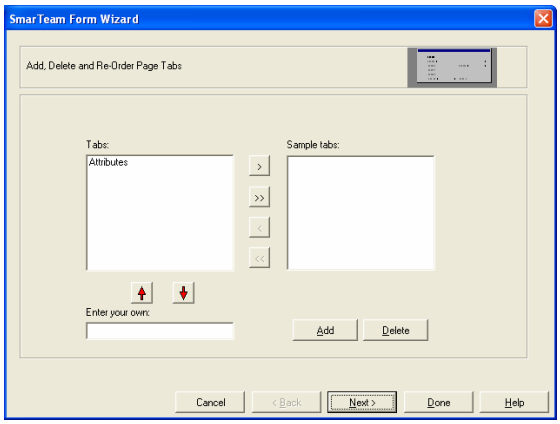


Click on *Modify*

Form Wizard :

It is an intuitive tool and easy to use. It can be used on the first step to design a profile card. But with *Form Wizard*, it is impossible to put pictures in the profile card and to associate scripts. That's why, usually we use *Form Designer* after using *Form Wizard*.





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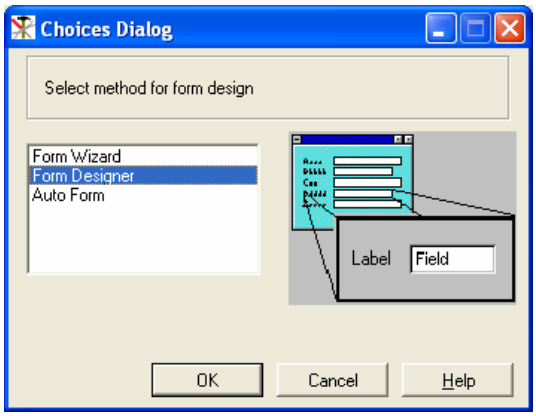
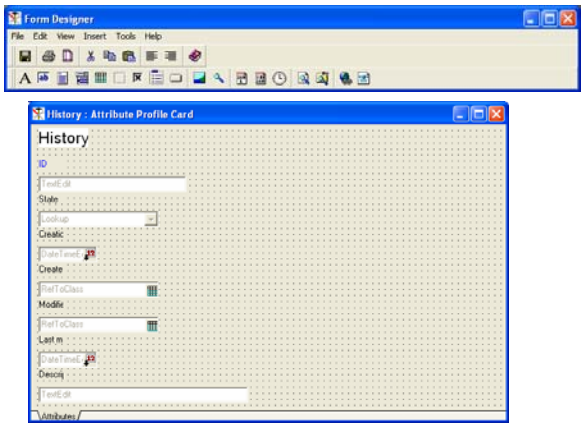
Form Designer :

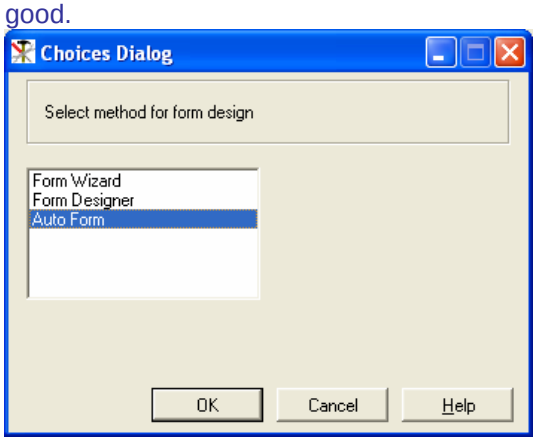
This tool allows to design a profile card with much more functionalities. Usually we use this tool to improve the profile cards already designed with *Form Wizard*.





Auto Form :

This tool creates automatically the Profile Cards. It is not advised to use this tool because the result is not so good.



So as to copy a profile card from a database to another (or from and to the same database), you can use *Copyform* (Copyform is a tool provided thru the SmartDBTool BPC).

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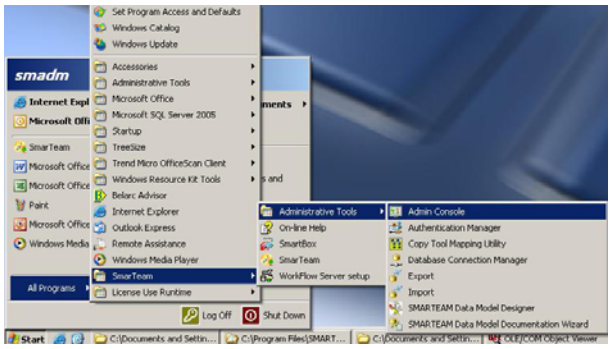
9. 7th step : Hook the scripts

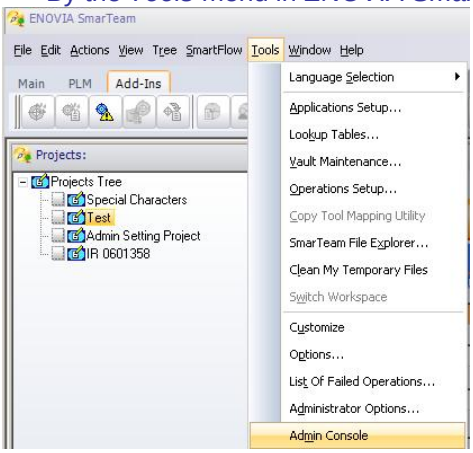
4. For launching the different tools, first of all, you have to execute *Admin Console*.

You have two choices:

- By the Start menu :



- By the *Tools* menu in *ENOVIA SmarTeam* :



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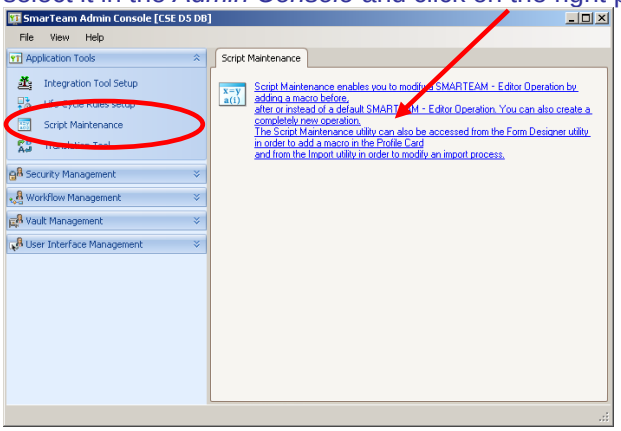
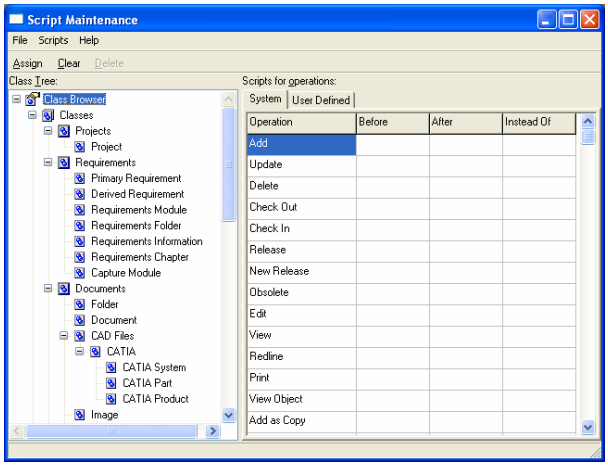
To launch *Script Maintenance*,
select it in the *Admin Console* and click on the right panel:





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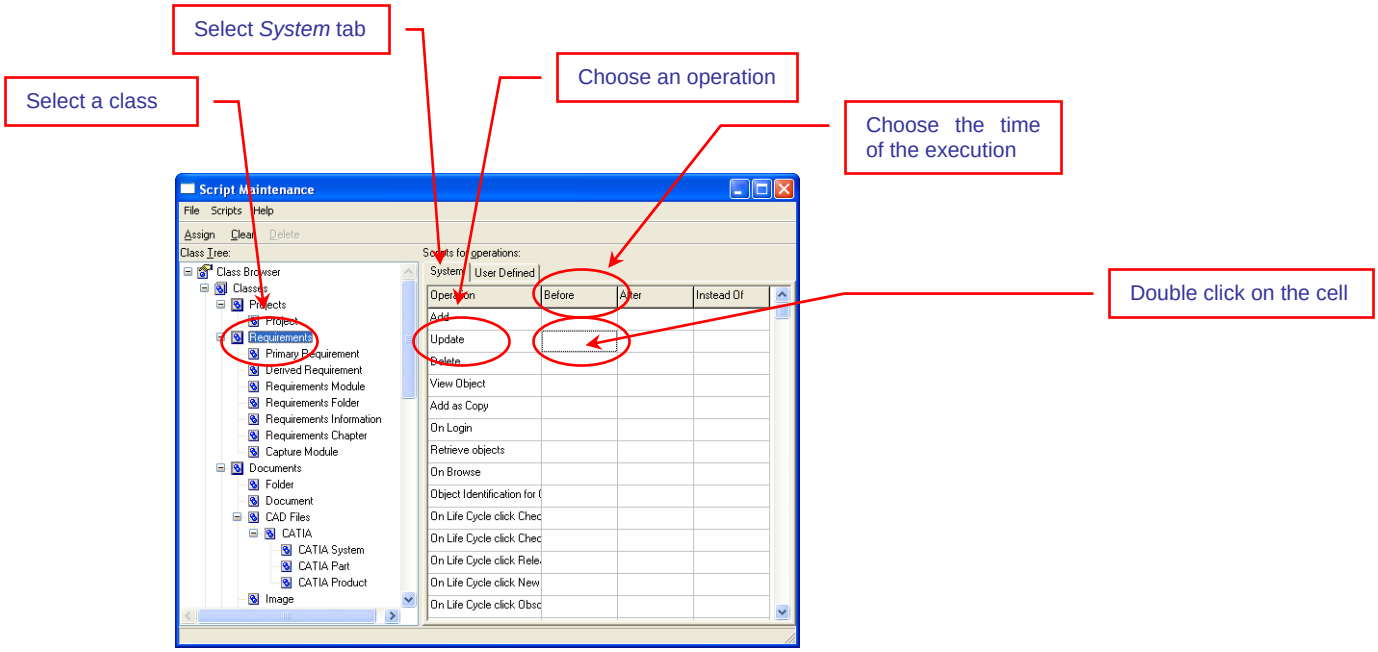
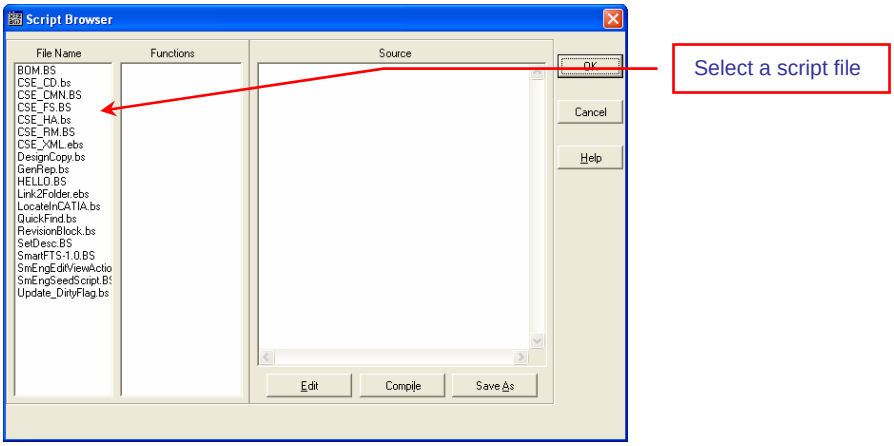
9.1. Hook a script on an event





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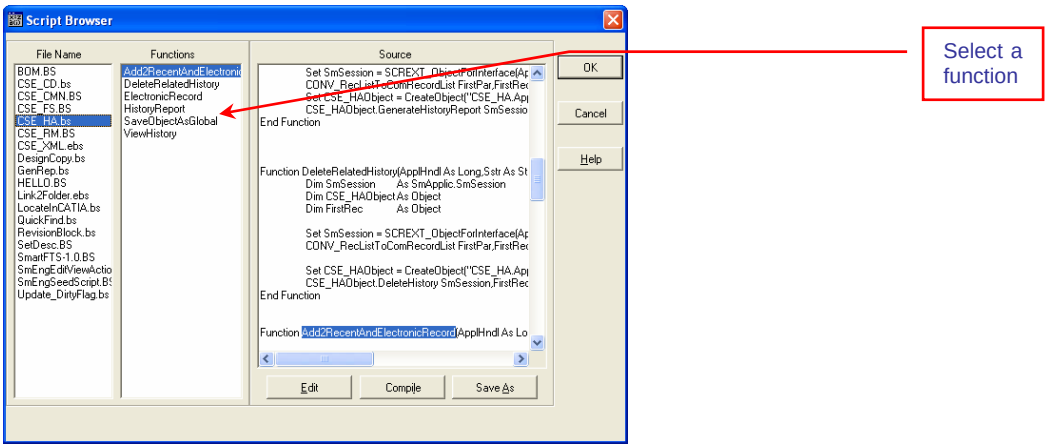

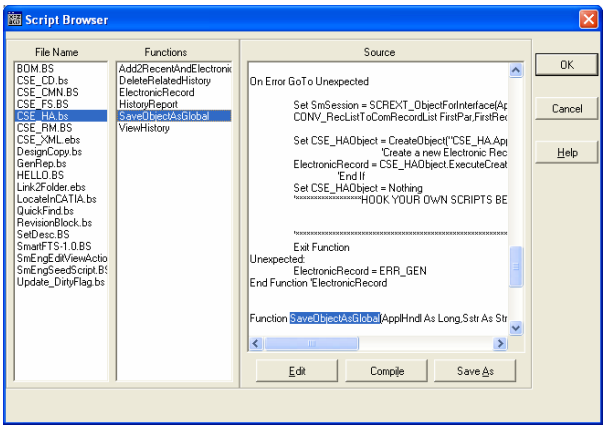

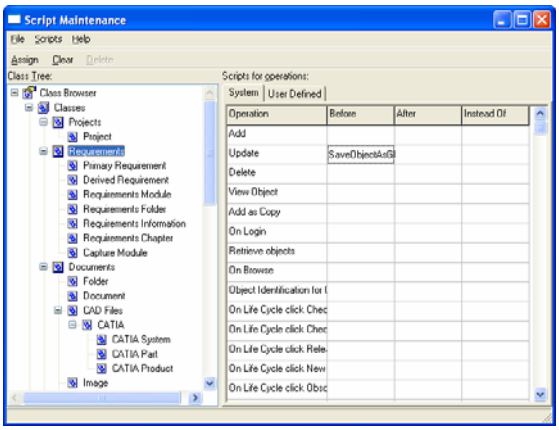

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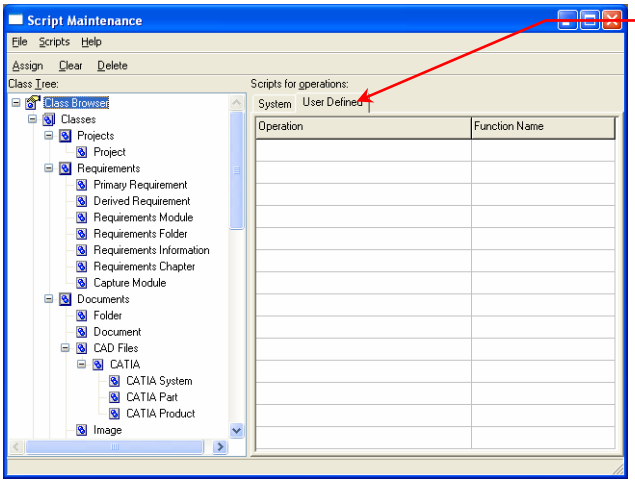
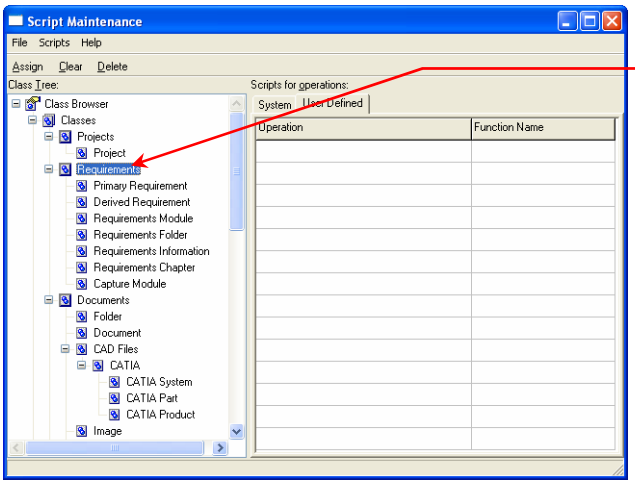
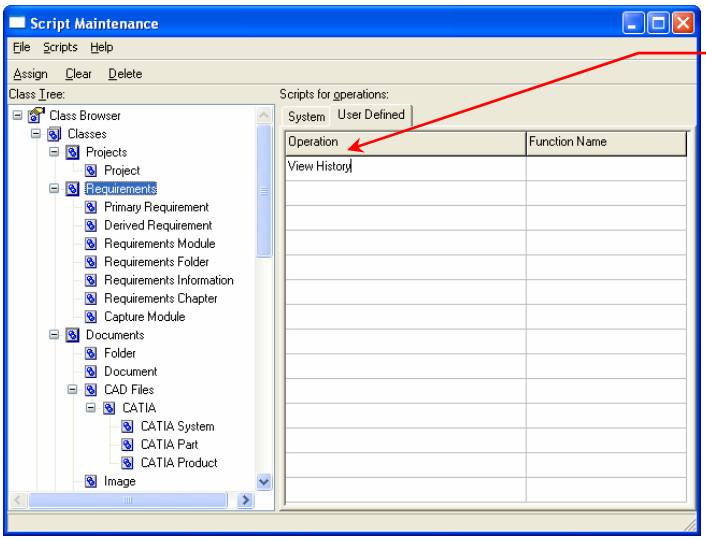
9.2. Hook a script as a User Defined Tool



Select *User Defined* tab



Select a class



Type an operation

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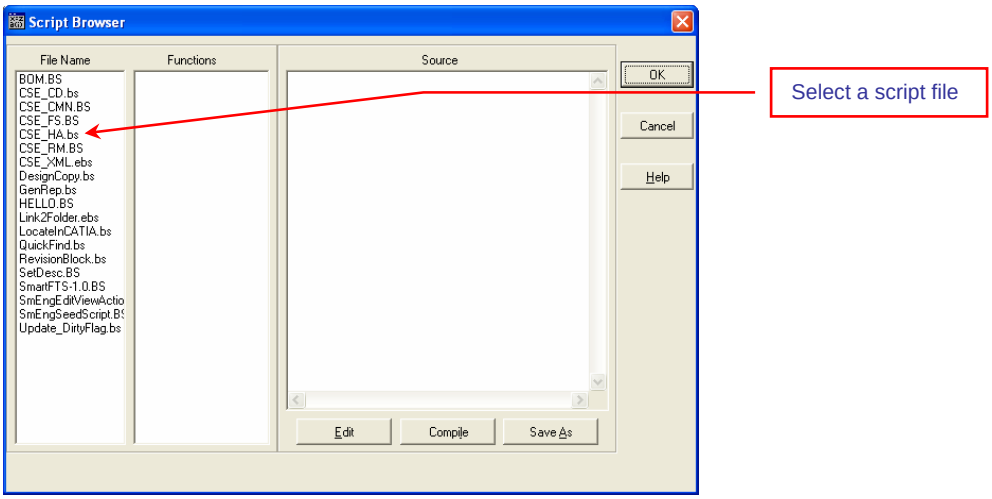

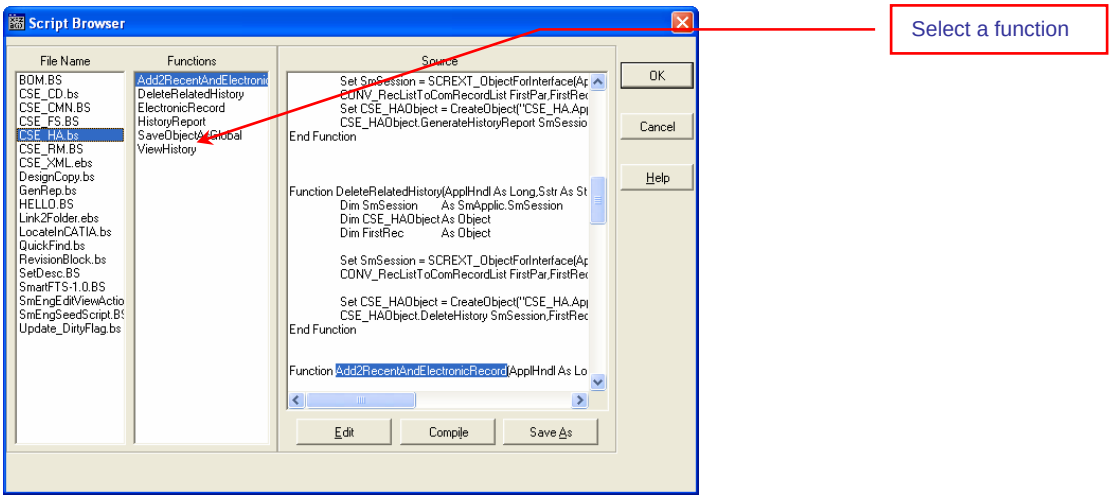

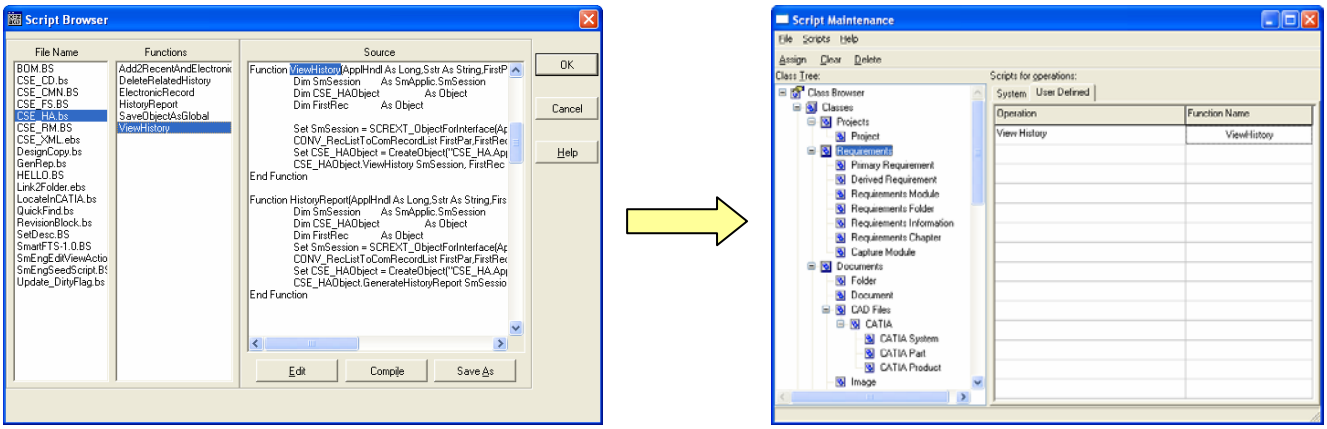

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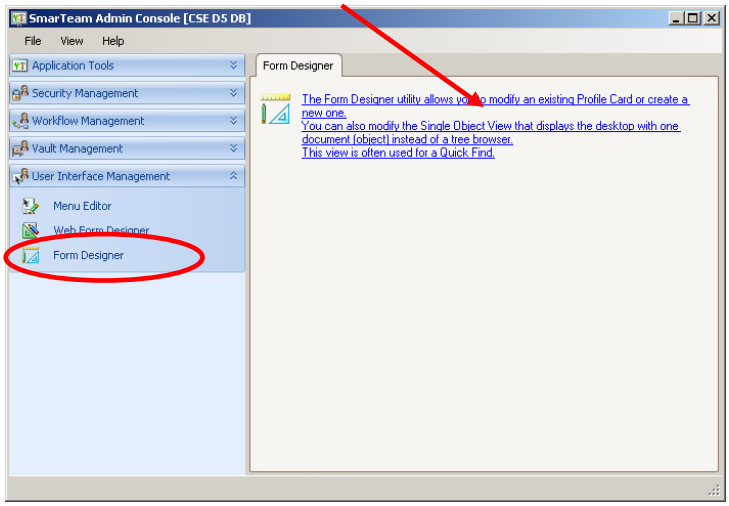
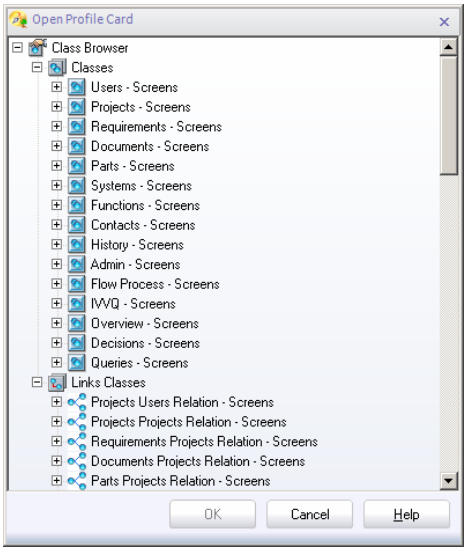
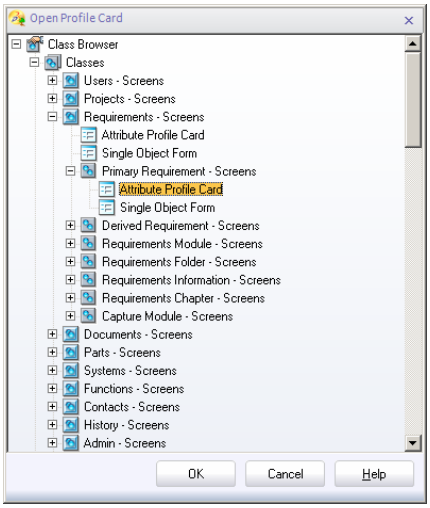
9.3. Hook a script to a profile card

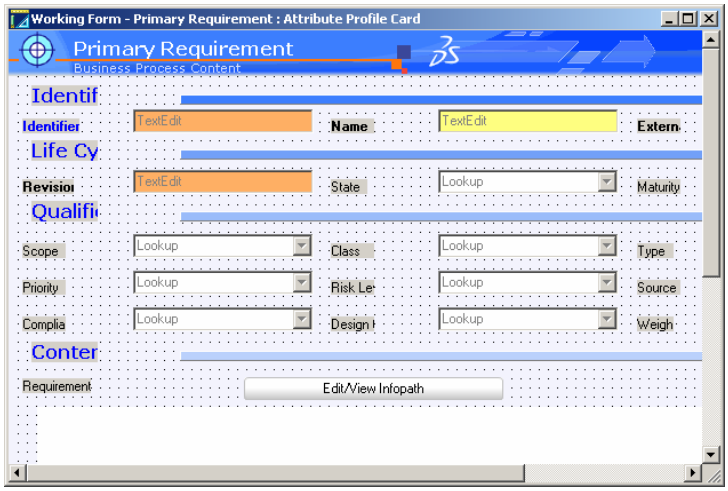
1. To launch *Form Designer*,
   select it in the *Admin Console* and click on the right panel:





2. Select the *profile card* to modify by clicking on the class and after clicking on *Attribute Profile Card*.





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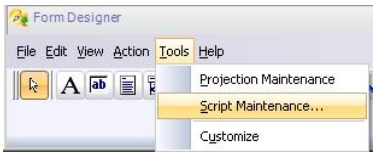
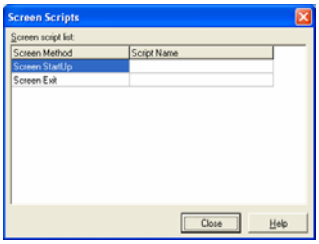
9.4. Hook a script to the event Display of the profile card

Example : Link the script *XML_View_Refresh* to the *Screen StartUp*

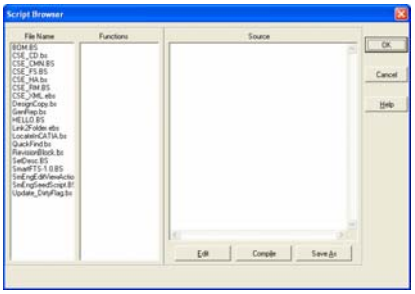
1. Select *Tools/Script Maintenance* in the menu bar ;



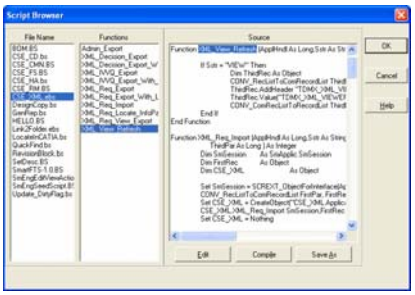
2. Select *Screen StartUp* and click on *Script Name* ;

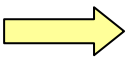


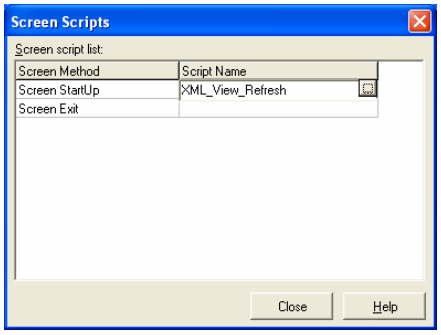
3. Select the file in the list ;



4. Select the script.







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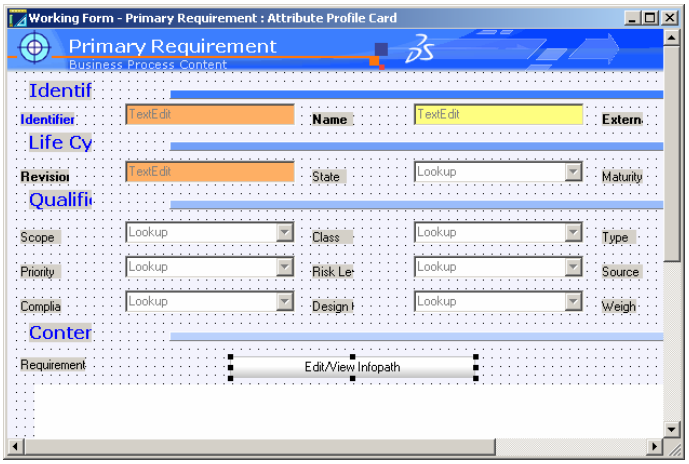
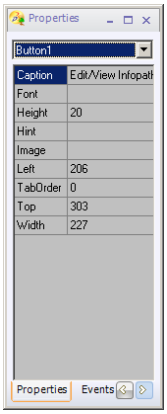
9.5. Hook a script to the a widget in the profile card

Example : Link the button *Edit/View InfoPath* Text to the script *XML_Req_View_Export*

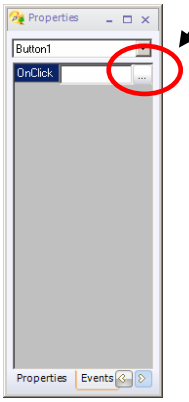
1. Double click on the button ;



2. Click on the *Event* tab ;



3. Click on *OnClick* ;



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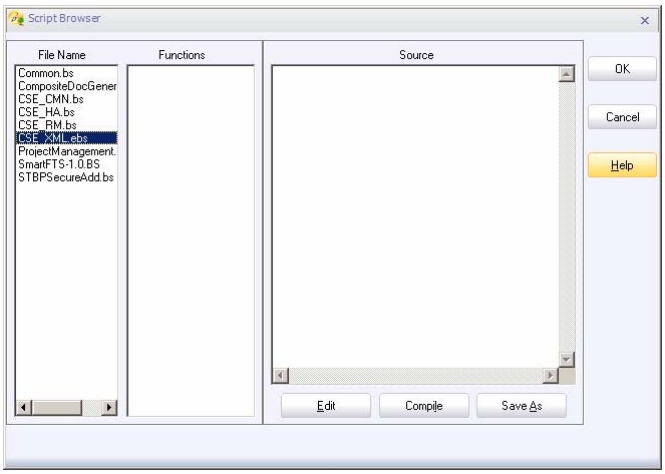
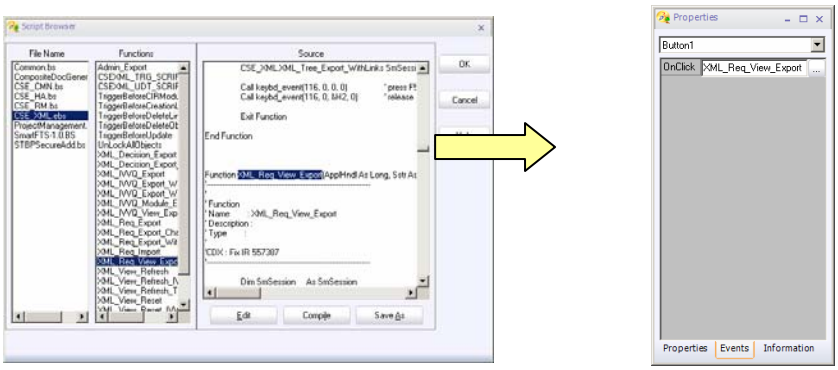
4. Select the file ;



5. Select the script ;



9.6. Module CSE_CMN (Collaborative System Lifecycle Management & Traceability)

Triggers

CLASS	SCRIPT_NAME	OPERATION	STAGE
Admin Setting (TN_ADMIN_SETTING)	CSECMN_TRG_SCRIPT_01	Add	Before
Admin Setting (TN_ADMIN_SETTING)	CSECMN_TRG_SCRIPT_01	Add as Copy	Before
Admin Setting (TN_ADMIN_SETTING)	CSECMN_TRG_SCRIPT_01	Update	Before
Documents (TN_DOCUMENTS)	HideObjects	Delete	Instead Of
Documents (TN_DOCUMENTS)	CheckInReleaseObject	On Life Cycle click CheckIn	Before
Documents (TN_DOCUMENTS)	CheckInReleaseObject	On Life Cycle click Release	Before
Documents (TN_DOCUMENTS)	DoNotDisplayHiddenObjects	Retrieve objects	After
Function (TN_FUNCTION)	MarkLinksToObjectAsSuspect	New Release	After
Requirements (TN_REQUIREMENTS)	HideObjects	Delete	Instead Of
Requirements (TN_REQUIREMENTS)	MarkLinksToObjectAsSuspect	New Release	After
Requirements (TN_REQUIREMENTS)	CheckInReleaseObject	On Life Cycle click CheckIn	Before

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Requirements (TN_REQUIREMENTS)	CheckInReleaseObject	On Life Cycle click Release	Before
Requirements (TN_REQUIREMENTS)	DoNotDisplayHiddenObjects	Retrieve objects	After
Requirements Functions Relation (TN_LINK_00155)	After_LinkDecision	Add	After
Requirements Functions Relation (TN_LINK_00155)	Before_LinkDecision	Add	Before
Requirements Functions Relation (TN_LINK_00155)	Before_LinkDecision	Delete	Before
Requirements Requirements Relati (TN_LINK_00401)	After_LinkDecision	Add	After
Requirements Requirements Relati (TN_LINK_00401)	Before_LinkDecision	Add	Before
Requirements Requirements Relati (TN_LINK_00401)	Before_LinkDecision	Delete	Before
Requirements Functions Relation (TN_LINK_00155)	Aft_LinkDecisionAndElecRec	Add	After
Requirements Functions Relation (TN_LINK_00155)	Before_LinkDecision	Add	Before
Requirements Functions Relation (TN_LINK_00155)	Bef_LinkDecisionAndElecRec	Delete	Before
Requirements Requirements Relati (TN_LINK_00401)	Aft_LinkDecisionAndElecRec	Add	After
Requirements Requirements Relati (TN_LINK_00401)	Before_LinkDecision	Add	Before
Requirements Requirements Relati (TN_LINK_00401)	Bef_LinkDecisionAndElecRec	Delete	Before
Requirements Systems Relation (TN_LINK_00154)	Aft_LinkDecisionAndElecRec	Add	After
Requirements Systems Relation (TN_LINK_00154)	Before_LinkDecision	Add	Before
Requirements Systems Relation (TN_LINK_00154)	Bef_LinkDecisionAndElecRec	Delete	Before
System (TN_SYSTEM)	MarkLinksToObjectAsSuspect	New Release	After
IVVQ Requirements Relation (TN_LINK_00531)	After_LinkDecision	Add	After
IVVQ Requirements Relation (TN_LINK_00531)	Before_LinkDecision	Add	Before
IVVQ Requirements Relation (TN_LINK_00531)	Before_LinkDecision	Delete	Before
Systems Functions Relation (TN_LINK_00150)	After_LinkDecision	Add	After
Systems Functions Relation (TN_LINK_00150)	Before_LinkDecision	Add	Before
Systems Functions Relation (TN_LINK_00150)	Before_LinkDecision	Delete	Before

User Defined Tools

CLASS	SCRIPT_NAME	OPERATION
All classes	DeleteAllObjectsInTheTrash	Delete all objects in the trash
All classes	DeleteObjectsInTheTrash	Delete objects in the trash
All classes	RestoreObjectsInTheTrash	Restore objects from the trash
All not link classes	AttachExistingDecisionObject	Attach Existing Decision
All not link classes	AttachNewDecisionObject	Attach New Decision
Projects (TN_PROJECTS)	CSECMN_UDT_SCRIPT_02	Check Admin Settings Doubles
Projects (TN_PROJECTS)	CSECMN_UDT_SCRIPT_01	Get back free Admin Settings

Profile cards

SCRIPT_NAME	CLASS	CONTROL_TYPE	CAPTION	EVENT
Update_LinkDecision	Functions Tree (FUNCTIO_TREE)	Button	Update Link	ON_CLICK
Update_LinkDecision	Systems Functions Relation (TN_LINK_00150)	Button	Update Link	ON_CLICK
Update_LinkDecision	IVVQ Functions Relation (TN_LINK_00533)	Button	Update Link	ON_CLICK
Update_LinkDecision	IVVQ IVVQ Relation (TN_LINK_00537)	Button	Update Link	ON_CLICK
Update_LinkDecision	Requirements Systems Relation (TN_LINK_00154)	Button	Update Link	ON_CLICK
Update_LinkDecision	Requirements Functions Relation (TN_LINK_00155)	Button	Update Link	ON_CLICK
Update_LinkDecision	Systems Tree (SYSTEMS_TREE)	Button	Update Link	ON_CLICK
Update_LinkDecision	IVVQ Systems Relation (TN_LINK_00532)	Button	Update Link	ON_CLICK

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Update_LinkDecision	IVVQ Requirements Relation (TN_LINK_00531)	Button	Update Link	ON_CLICK
Update_LinkDecision	Requirements Requirements Relation (TN_LINK_00401)	Button	Update Link	ON_CLICK
Update_LinkDecision	IVVQ Tree (IVVQ_TREE)	Button	Update Link	ON_CLICK
Update_LinkDecision	Functions Tree (FUNCTIO_TREE)	Button	Update Link	ON_CLICK

9.7. Module CSE_HA (Collaborative System Lifecycle Management & Traceability)

Triggers

CLASS	SCRIPT_NAME	OPERATION	STAGE
Requirements (TN_REQUIREMENTS)	ElectronicRecord	Add	After
Requirements (TN_REQUIREMENTS)	ElectronicRecord	Add as Copy	After
Requirements (TN_REQUIREMENTS)	ElectronicRecord	Update	After
Other link class or object class having a link with the History class	ElectronicRecord	Add	After
Other link class or object class having a link with the History class	ElectronicRecord	Add as Copy	After
Other link class or object class having a link with the History class	ElectronicRecord	Delete	Before
Other link class or object class having a link with the History class	ElectronicRecord	Update	After
Other link class or object class having a link with the History class	SaveObjectAsGlobal	Update	Before

User Defined Tools

CLASS	SCRIPT_NAME	OPERATION
Requirements (TN_REQUIREMENTS)	HistoryReport	Generate History Report
Requirements (TN_REQUIREMENTS)	ViewHistory	View History

9.8. Module CSE_RM (Requirements Management)

Triggers

CLASS	SCRIPT_NAME	OPERATION	STAGE
Capture Module (TN_CAPTURE_MODULE)	OnReleaseRequirementsModule	Release	After
Requirements Module (TN_REQUIREMENTS_MODULE)	OnReleaseRequirementsModule	Release	After
Requirements Tree (REQUIR_TREE)	Increment_TDMX_Ordering	Add	After
Requirements (TN_REQUIREMENTS)	ModifyTheTreeDisplay	Retrieve objects	After
Documents (TN_DOCUMENTS)	CSERM_TRG_LifeCycleGUI	Load Life Cycle Screen	Before
Documents (TN_DOCUMENTS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click CheckIn	Before
Documents (TN_DOCUMENTS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click CheckOut	Before
Documents (TN_DOCUMENTS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Release	Before
Documents (TN_DOCUMENTS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click New Release	Before
Documents (TN_DOCUMENTS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Obsolete	Before

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Documents (TN_DOCUMENTS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Copy File	Before
Requirements (TN_REQUIREMENTS)	CSERM_TRG_LifeCycleGUI	Load Life Cycle Screen	Before
Requirements (TN_REQUIREMENTS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click CheckIn	Before
Requirements (TN_REQUIREMENTS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click CheckOut	Before
Requirements (TN_REQUIREMENTS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Release	Before
Requirements (TN_REQUIREMENTS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click New Release	Before
Requirements (TN_REQUIREMENTS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Obsolete	Before
Requirements (TN_REQUIREMENTS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Copy File	Before
Systems (TN_SYSTEMS)	CSERM_TRG_LifeCycleGUI	Load Life Cycle Screen	Before
Systems (TN_SYSTEMS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click CheckIn	Before
Systems (TN_SYSTEMS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click CheckOut	Before
Systems (TN_SYSTEMS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Release	Before
Systems (TN_SYSTEMS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click New Release	Before
Systems (TN_SYSTEMS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Obsolete	Before
Systems (TN_SYSTEMS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Copy File	Before
Functions (TN_FUNCTIONS)	CSERM_TRG_LifeCycleGUI	Load Life Cycle Screen	Before
Functions (TN_FUNCTIONS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click CheckIn	Before
Functions (TN_FUNCTIONS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click CheckOut	Before
Functions (TN_FUNCTIONS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Release	Before
Functions (TN_FUNCTIONS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click New Release	Before
Functions (TN_FUNCTIONS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Obsolete	Before
Functions (TN_FUNCTIONS)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Copy File	Before
IVVQ (TN_IVVQ)	CSERM_TRG_LifeCycleGUI	Load Life Cycle Screen	Before
IVVQ (TN_IVVQ)	CSERM_TRG_LifeCycleGUI	On Life Cycle click CheckIn	Before
IVVQ (TN_IVVQ)	CSERM_TRG_LifeCycleGUI	On Life Cycle click CheckOut	Before
IVVQ (TN_IVVQ)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Release	Before
IVVQ (TN_IVVQ)	CSERM_TRG_LifeCycleGUI	On Life Cycle click New Release	Before
IVVQ (TN_IVVQ)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Obsolete	Before
IVVQ (TN_IVVQ)	CSERM_TRG_LifeCycleGUI	On Life Cycle click Copy File	Before

User Defined Tools

CLASS	SCRIPT_NAME	OPERATION
Capture Module (TN_CAPTURE_MODULE)	ReorderReqDoc	Reorder Document
Derived Requirement (TN_DERIVED_REQUIREMENT)	CompareTwoObjects	Compare two requirements
Derived Requirement (TN_DERIVED_REQUIREMENT)	ReorderReqDoc	Reorder Document
Primary Requirement (TN_PRIMARY_REQUIREMENT)	CompareTwoObjects	Compare two requirements
Primary Requirement (TN_PRIMARY_REQUIREMENT)	ReorderReqDoc	Reorder Document
Projects (TN_PROJECTS)	GenerateTraceabilityMatrix	Generate Traceability Matrix
Requirements Chapter (TN_REQUIREMENTS_CHAPTER)	UDT_CreatePrimReqFromClipboard	Create prim req from clipboard
Requirements Chapter (TN_REQUIREMENTS_CHAPTER)	ReorderReqDoc	Reorder Document
Requirements Folder (TN_REQUIREMENTS_FOLDER)	ReorderReqDoc	Reorder Document
Requirements Information (TN_REQUIREMENTS_INFORMATIO)	ReorderReqDoc	Reorder Document
Requirements Module (TN_REQUIREMENTS_MODULE)	UDT_CreatePrimReqFromClipboard	Create prim req from clipboard
Requirements Module (TN_REQUIREMENTS_MODULE)	ReorderReqDoc	Reorder Document
Derived Requirement (TN_DERIVED_REQUIREMENT)	DecomposeReqInfoPath	Decompose Requirement

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Derived Requirement (TN_DERIVED_REQUIREMENT)	CreateDerivedReqInfoPath	Derive Requirement
Documents (TN_DOCUMENTS)	UDT_CSE_LifeCycle	Check-In
Documents (TN_DOCUMENTS)	UDT_CSE_LifeCycle	Check-Out
Documents (TN_DOCUMENTS)	UDT_CSE_LifeCycle	New Release
Documents (TN_DOCUMENTS)	UDT_CSE_LifeCycle	Release
Primary Requirement (TN_PRIMARY_REQUIREMENT)	DecomposeReqInfoPath	Decompose Requirement
Primary Requirement (TN_PRIMARY_REQUIREMENT)	CreateDerivedReqInfoPath	Derive Requirement
Primary Requirement (TN_PRIMARY_REQUIREMENT)	TraceToOriginalDocument	Trace to Original Document
Requirements (TN_REQUIREMENTS)	UDT_CSE_LifeCycle	Check-In
Requirements (TN_REQUIREMENTS)	UDT_CSE_LifeCycle	Check-Out
Requirements (TN_REQUIREMENTS)	GenerateMatrixReport	Generate Matrix Report
Requirements (TN_REQUIREMENTS)	UDT_CSE_LifeCycle	New Release
Requirements (TN_REQUIREMENTS)	UDT_CSE_LifeCycle	Release
Requirements Chapter (TN_REQUIREMENTS_CHAPTER)	CreatePrimaryReqInfoPath	Create Primary Requirement
Requirements Module (TN_REQUIREMENTS_MODULE)	CreatePrimaryReqInfoPath	Create Primary Requirement
Requirements Module (TN_REQUIREMENTS_MODULE)	GenerateReqDoc	Generate Document
Systems (TN_SYSTEMS)	UDT_CSE_LifeCycle	Check-In
Systems (TN_SYSTEMS)	UDT_CSE_LifeCycle	Check-Out
Systems (TN_SYSTEMS)	UDT_CSE_LifeCycle	New Release
Systems (TN_SYSTEMS)	UDT_CSE_LifeCycle	Release
Functions (TN_FUNCTIONS)	UDT_CSE_LifeCycle	Check-In
Functions (TN_FUNCTIONS)	UDT_CSE_LifeCycle	Check-Out
Functions (TN_FUNCTIONS)	UDT_CSE_LifeCycle	New Release
Functions (TN_FUNCTIONS)	UDT_CSE_LifeCycle	Release
IVVQ (TN_IVVQ)	UDT_CSE_LifeCycle	Check-In
IVVQ (TN_IVVQ)	UDT_CSE_LifeCycle	Check-Out
IVVQ (TN_IVVQ)	UDT_CSE_LifeCycle	New Release
IVVQ (TN_IVVQ)	UDT_CSE_LifeCycle	Release
Requirements Folder (TN_REQUIREMENTS_FOLDER)	UDT_RIF_Export	Export RIF
Requirements Module (TN_REQUIREMENTS_MODULE)	UDT_RIF_Export	Export RIF
Requirements Chapter (TN_REQUIREMENTS_CHAPTER)	UDT_RIF_Export	Export RIF
Capture Module (TN_CAPTURE_MODULE)	UDT_RIF_Export	Export RIF

9.9. Module common

Triggers

CLASS	SCRIPT_NAME	OPERATION	STAGE
Primary Requirement (TN_PRIMARY_REQUIREMENT)	Common8	Update	Before
Requirements (TN_REQUIREMENTS)	Common7	Delete	Before
Requirements (TN_REQUIREMENTS)	Common8	Update	Before
Requirements Module (TN_REQUIREMENTS_MODULE)	Common5	On Life Cycle click CheckIn	Before
Requirements Module (TN_REQUIREMENTS_MODULE)	Common5	On Life Cycle click Release	Before
Requirements Tree (REQUIR_TREE)	Common3	Add	Before
Requirements Tree (REQUIR_TREE)	Common2	Delete	Before

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9.10. Module CSE_XML (Requirements XML Edition)

Triggers

CLASS	SCRIPT_NAME	OPERATION	STAGE
Requirements (TN_REQUIREMENTS)	TriggerBeforeDeleteObject	Delete	Before
Primary Requirement (TN_PRIMARY_REQUIREMENT)	TriggerBeforeUpdate	Update	Before
Derived Requirement (TN_DERIVED_REQUIREMENT)	TriggerBeforeUpdate	Update	Before
Requirements Module (TN_REQUIREMENTS_MODULE)	TriggerBeforeCIRModule	On Life Cycle click CheckIn	Before
Requirements Module (TN_REQUIREMENTS_MODULE)	TriggerBeforeCIRModule	On Life Cycle click Release	Before
Requirements Folder (TN_REQUIREMENTS_FOLDER)	TriggerBeforeUpdate	Update	Before
Requirements Information (TN_REQUIREMENTS_INFORMATIO)	TriggerBeforeUpdate	Update	Before
Requirements Chapter (TN_REQUIREMENTS_CHAPTER)	TriggerBeforeUpdate	Update	Before
Capture Module (TN_CAPTURE_MODULE)	TriggerBeforeUpdate	Update	Before
Requirements Tree (REQUIR_TREE)	TriggerBeforeCreationLink	Add	Before
Requirements Tree (REQUIR_TREE)	TriggerBeforeDeleteLink	Delete	Before

User Defined Tools

CLASS	SCRIPT_NAME	OPERATION
Requirements (TN_REQUIREMENTS)	UnLockAllObjects	Unlock all objects
Requirements (TN_REQUIREMENTS)	CSEXML_TRG_SCRIPT_01	Unlock contextual
Requirements Module (TN_REQUIREMENTS_MODULE)	XML_Req_Export	Edit in InfoPath
Requirements Chapter (TN_REQUIREMENTS_CHAPTER)	XML_Req_Export_Chap	Edit in Infopath
IVVQ Module (TN_IVVQ_MODULE)	XML_IVVQ_Export_WithLinks	Edit in Infopath
IVVQ_Chapter (TN_IVVQ_CHAPTER)	XML_IVVQ_Export_WithLinks	Edit in Infopath

Profile cards

SCRIPT_NAME	CLASS	EVENT
XML_View_Refresh	Requirements Information (TN_REQUIREMENTS_INFORMATIO)	ON_STARTUP
XML_View_Refresh	Primary Requirement (TN_PRIMARY_REQUIREMENT)	ON_STARTUP
XML_View_Refresh_TwoFields	Derived Requirement (TN_DERIVED_REQUIREMENT)	ON_STARTUP
XML_View_Reset	Primary Requirement (TN_PRIMARY_REQUIREMENT)	ON_EXIT
XML_View_Reset	Requirements Information (TN_REQUIREMENTS_INFORMATIO)	ON_EXIT
XML_View_Reset_TwoFields	Derived Requirement (TN_DERIVED_REQUIREMENT)	ON_EXIT
XML_View_Refresh_IVVQ	IVVQ Sheet (TN_IVVQ_SHEET)	ON_STARTUP
XML_View_Refresh_IVVQ	IVVQ Result (TN_IVVQ_RESULT)	ON_STARTUP
XML_View_Refresh_IVVQ	IVVQ Information (TN_IVVQ_INFORMATION)	ON_STARTUP
XML_View_Reset_ThreeFields_IVVQ	IVVQ Sheet (TN_IVVQ_SHEET)	ON_EXIT
XML_View_Reset_TwoFields_IVVQ	IVVQ Result (TN_IVVQ_RESULT)	ON_EXIT
XML_View_Reset_IVVQ	IVVQ Information (TN_IVVQ_INFORMATION)	ON_EXIT

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SCRIPT_NAME	CLASS	CONTROL_TYPE	CAPTION	EVENT
XML_Req_View_Export	Primary Requirement (TN_PRIMARY_REQUIREMENT)	Button	Edit/View Infopath	ON_CLICK
XML_Req_View_Export	Requirements Information (TN_REQUIREMENTS_INFORMATIO)	Button	Edit/View Infopath	ON_CLICK
XML_Req_View_Export	Derived Requirement (TN_DERIVED_REQUIREMENT)	Button	Edit/View Infopath	ON_CLICK
XML_IVVQ_View_Export	IVVQ Sheet (TN_IVVQ_SHEET)	Button	Edit / View Requirement text	ON_CLICK
XML_IVVQ_View_Export	IVVQ Result (TN_IVVQ_RESULT)	Button	Edit / View Requirement text	ON_CLICK
XML_IVVQ_View_Export	IVVQ Information (TN_IVVQ_INFORMATION)	Button	Edit / View Requirement text	ON_CLICK

9.11. Module STBPSecureAdd (Requirements Management)

Triggers

CLASS	SCRIPT_NAME	OPERATION	STAGE
Documents Tree (DOCUMEN_TREE)	SecuredAddHierLink_BeforeAdd	Add	Before
Systems Tree (SYSTEMS_TREE)	SecuredAddHierLink_BeforeAdd	Add	Before
Systems Tree (SYSTEMS_TREE)	SecuredDeleteHierLink_Before	Delete	Before
Systems Tree (IVVQ_TREE)	SecuredAddHierLink_BeforeAdd	Add	Before
Systems Tree (IVVQ_TREE)	SecuredDeleteHierLink_Before	Delete	Before

9.12. Module CompositeDocGeneration (Composite Document Generation)

User Defined Tools

CLASS	SCRIPT_NAME	OPERATION
All classes	Select_QUERY	Generate Composite Document

Profile cards

SCRIPT_NAME	CLASS	EVENT
Link_StartUp	Query Link (TN_QUERY_LINK)	ON_STARTUP
Root_StartUp	Query Root (TN_QUERY_ROOT)	ON_STARTUP

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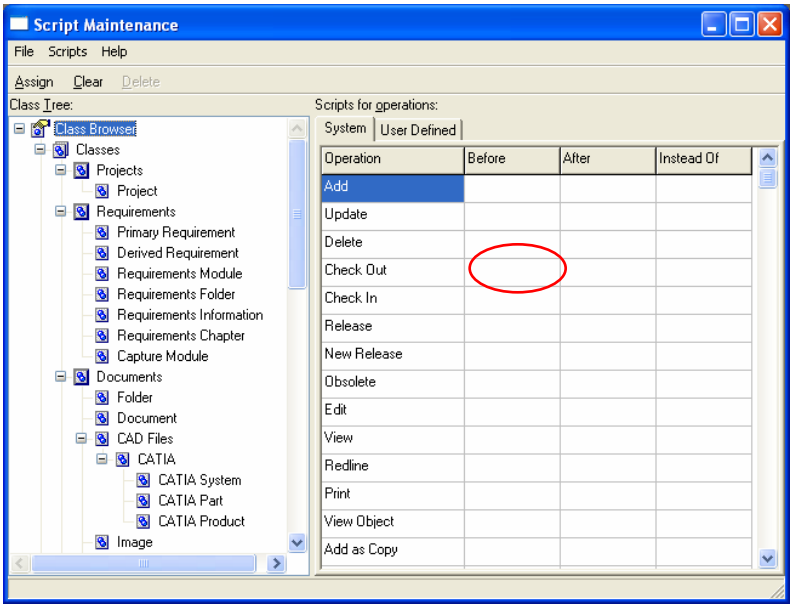
9.13. Multi hooking

ENOVIA SmarTeam does not allow hooking several functions on a same event and on a same stage (it does not concern the *User Defined Tools*).



Nevertheless, sometimes it is necessary to associate several behaviors to the same event.
By example: *ModifyTheTreeDisplay* of *CSE_RM* and *DoNotDisplayHiddenObjects* of *CSE_CMN* on the event *RetrieveObject* (Stage *After*)

In order to figure out this issue, a generic basic script: *Common.bs* has been developed.

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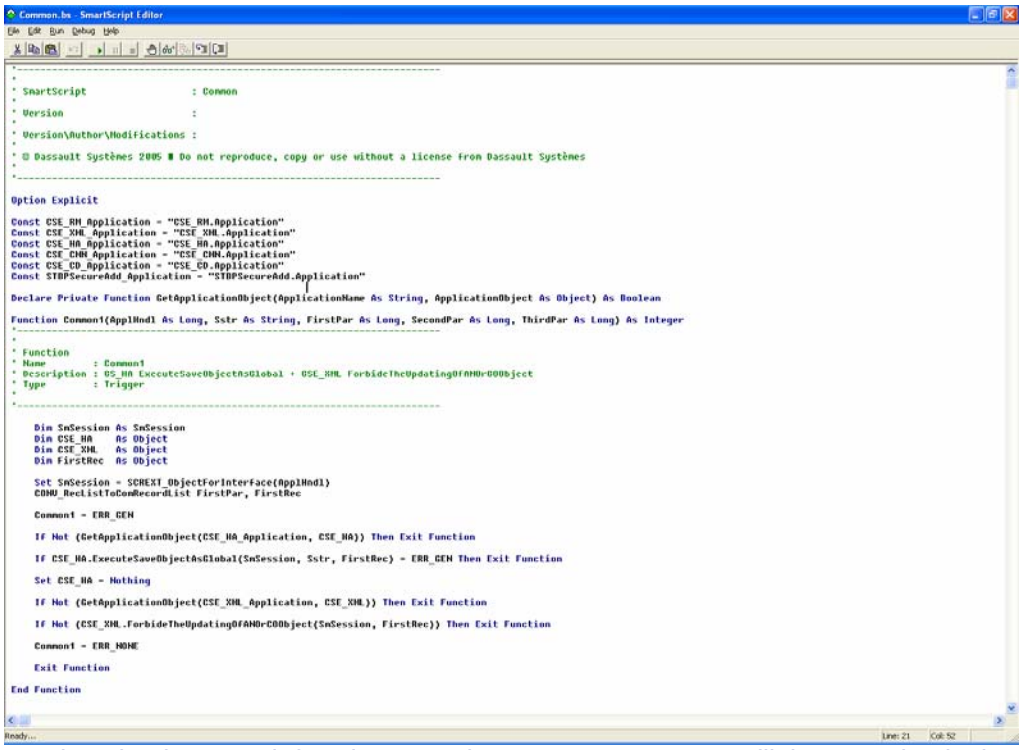
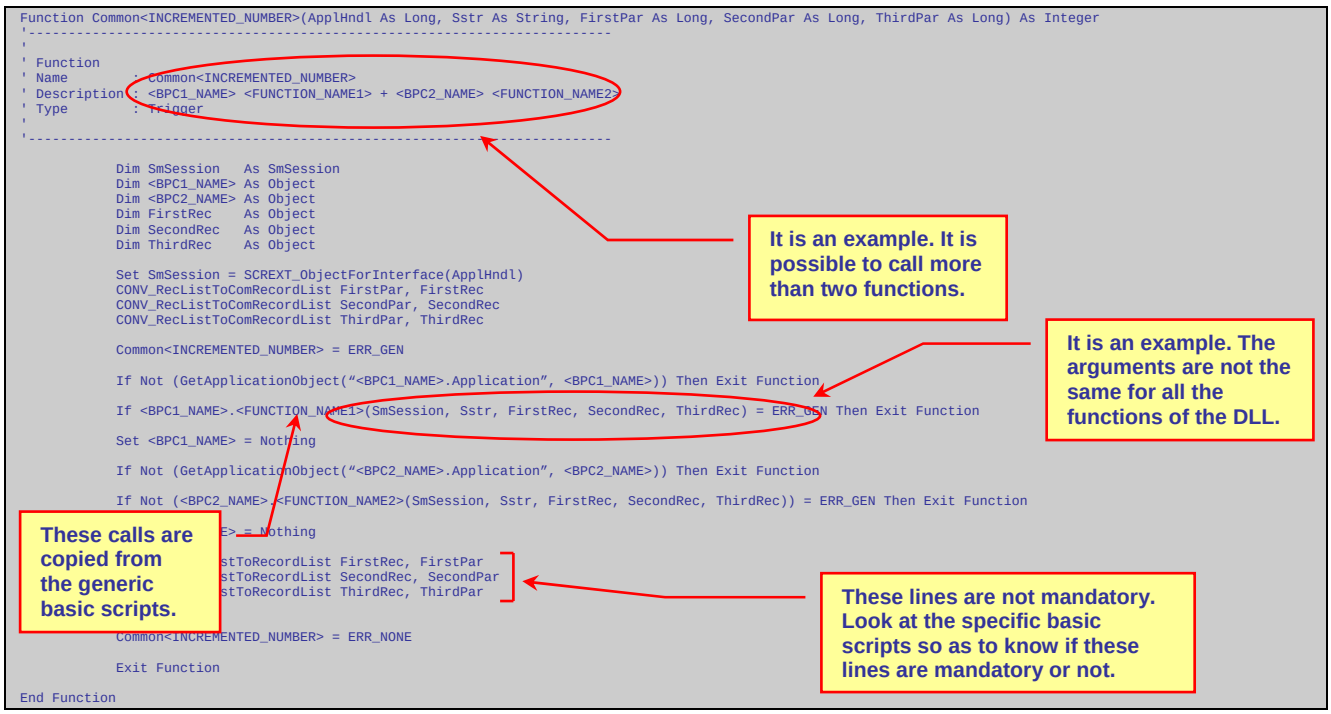


So, if you need to hook several functions on the same event, you will have to hook the function of Common.bs. Within that function you will find all the calls to the functions that have to be hooked. In case of only one function has to be hooked, you can use the target method of the specific basic script directly (*CSE_RM*, *CSE_XML*, *CSE_CMN*, *CSE_HA* or *CompositeDocGeneration)*.

Here below, is described the template of Common.bs basic script:



Here after are described some best practices to put in place regarding the implementation of that script.

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- If the called function returns boolean value, the line to insert is the following one :

```
If Not(<BPC1_NAME>.<FUNCTION_NAME1>(SmSession, Sstr, FirstRec, SecondRec, ThirdRec)) Then Exit Function
```

- If the called function returns no value, the line to insert is the following one :

```
<BPC1_NAME>.<FUNCTION_NAME1> SmSession, Sstr, FirstRec, SecondRec, ThirdRec
```

- The function *GetApplicationObject* aims to get back the application object of the DLL of the BPC. If the DLL is not registered, an error message is displayed and the treatment stops. **Do not modify the code of this function**.

```
Private Function GetApplicationObject(ApplicationName As String, ApplicationObject As Object) As Boolean
'-----------------------------------------------------------------------
'
' Function
' Name        : GetApplicationObject
' Description :
' Type        :
'
'-----------------------------------------------------------------------

            Dim ErrorMessage As String
            Dim Result       As Boolean
            Dim DLLName      As String
            Dim I            As Integer

            On Error Resume Next

            Set ApplicationObject = CreateObject(ApplicationName)

            If Err.Number = 0 And Not (ApplicationObject Is Nothing) Then

                        Result = True

            Else

                        I = Instr(1, ApplicationName, ".")
                        DLLName = Mid(ApplicationName, 1, I-1)

                        ErrorMessage = "The DLL " + DLLName + "is not registered in your disk"
                        MsgBox ErrorMessage
                        Result = False

            End If

            GetApplicationObject = Result

            Exit Function

End Function
```


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10. 8th step : Set up other parameters

Tool name	Function	Comment
Form designer	Design the *profile cards*	
User Maintenance	Create *users*, *roles*, *groups* and set the *authorizations*	
Menu Editor	Customize the GUI according to the user profile	
Translation Utility	Allow to have a NLS ENOVIA SmarTeam application	
Applications Set Up	Configure the application	
Lookup Tables	Update the possible values for the lookup attributes	
Vault Maintenance	Define the directory in which the files will be stored	
Lifecycle Rules Setup	Customize the lifecycle	
Sequence Designer	Create the sequences which will be associated to attributes	

10.1. Menu Editor

Hereafter are defined the buttons to be created in order to customize CSE solution:

- Generate Traceability Matrix Requirements – Requirements
- Generate Traceability Matrix Requirements – Functions
- Generate Traceability Matrix Functions – Systems
- Generate Verification Matrix
- Generate Allocation Matrix
- Generate Compliance Matrix
- Compare two requirements
- Generate Document
- Reorder Document
- Generate Composite Document
- Create Primary Requirement
- Create Derived Requirement
- Decompose Requirement
- Get Unallocated Requirements
- Generate History Report
- View History
- Update
- Trace to original document
- Edit module
- Restore all objects from recycle bin
- Delete all objects in recycle bin
- Delete objects in recycle bin

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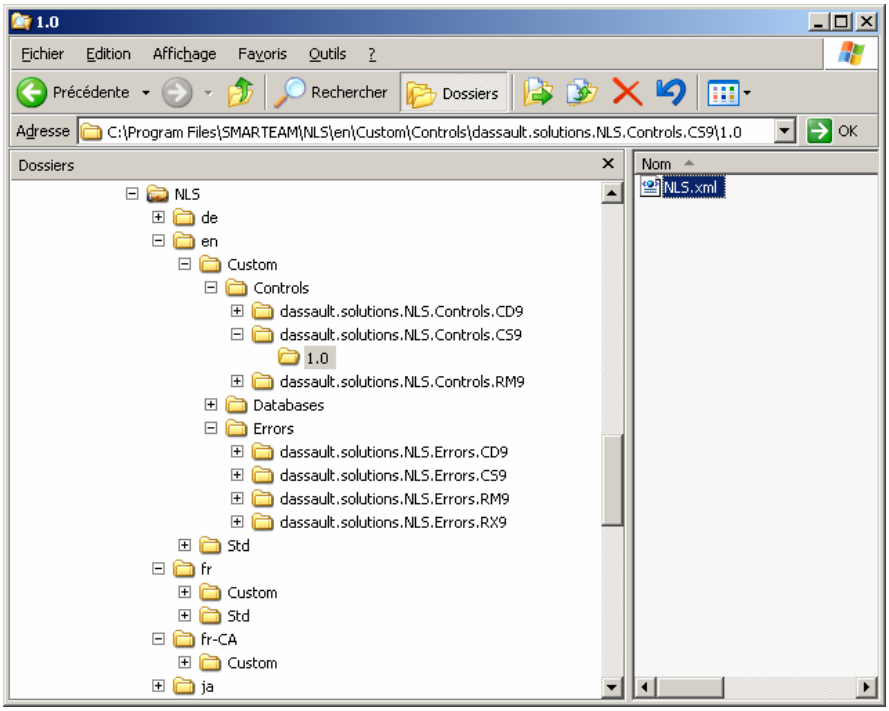
10.2. NLS

Information

In this version of CSE BPA Delivery 6 for V5R19 (V5.6), NLS feature is not available.

A directory structure and XML files corresponding to the supported languages is created in the SmarTeam Home directory during the Installation.
For example, the English installation is SmarTeam Home Directory\NLS\en\Custom\



In order to use a new language you must create the language in SmarTeam by using the Translation Utilities. The corresponding directory structure is then created in order to receive the translated xml files for each installed BPA.

Language creation with the Translation Utilities

Before use the "Translation Utility", check the following point. Be sure to use a SmarTeam DB properly migrated using Data Model Designer or otherwise your DB will be corrupted by the "Translation Utility".

Launch Admin Console:

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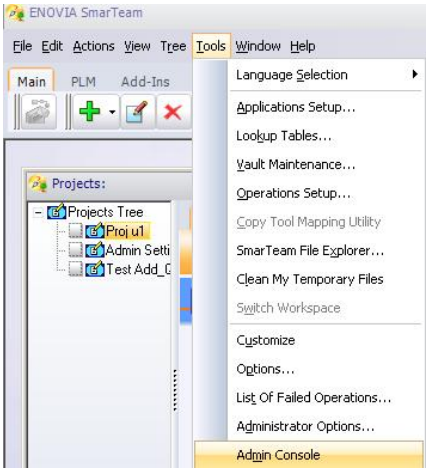
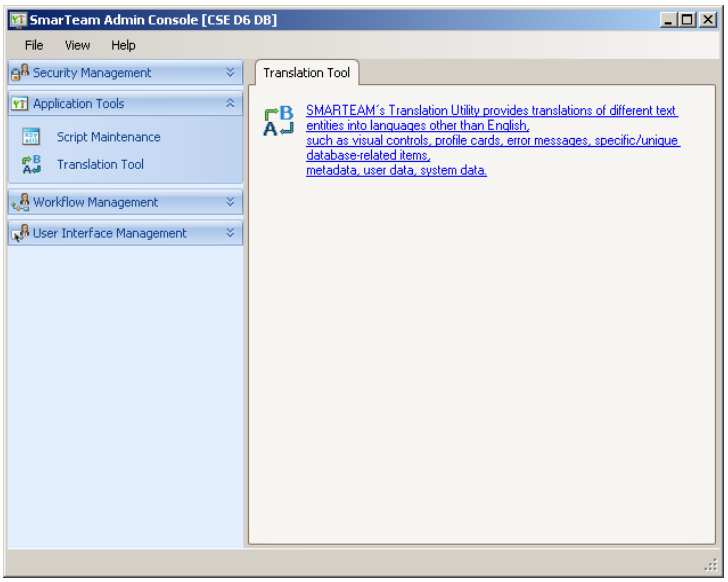


Log on:

Launch Translation Tool by clicking on the text in the right panel:



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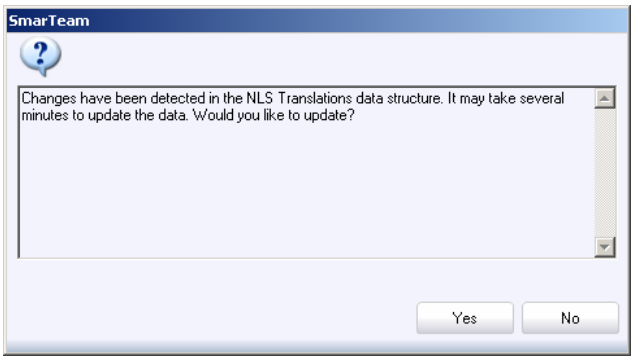
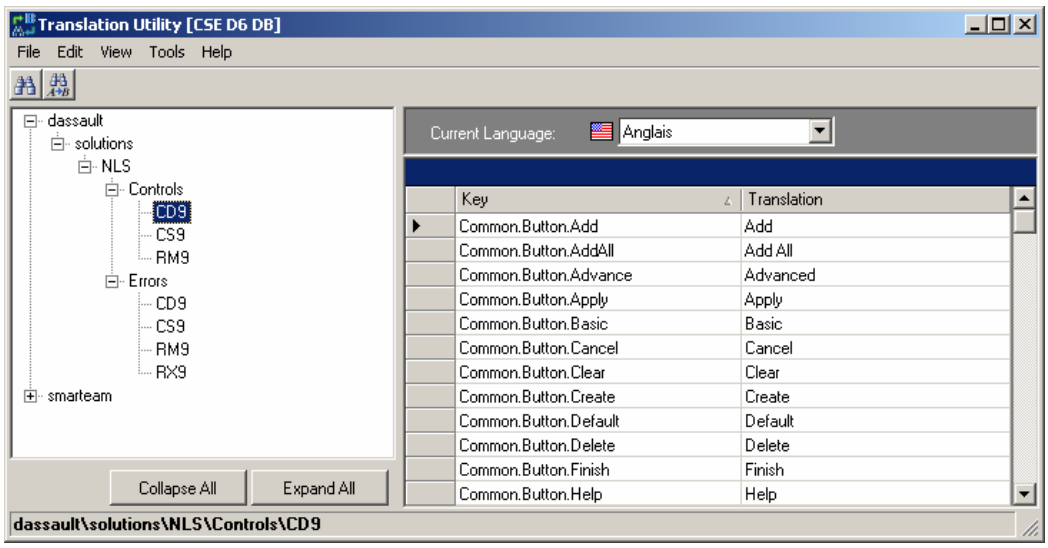
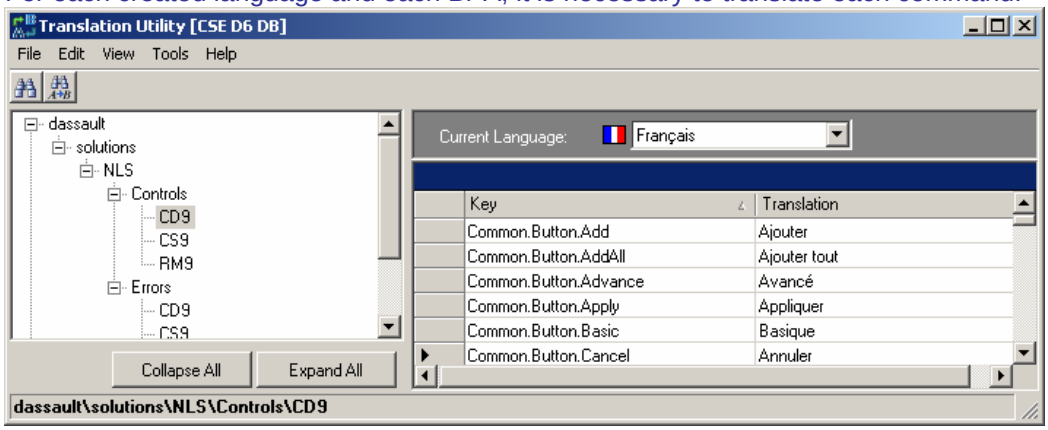


Click Yes

Then you have the different command with label corresponding to the selected language.
The default language is English.



For each created language and each BPA, it is necessary to translate each command:



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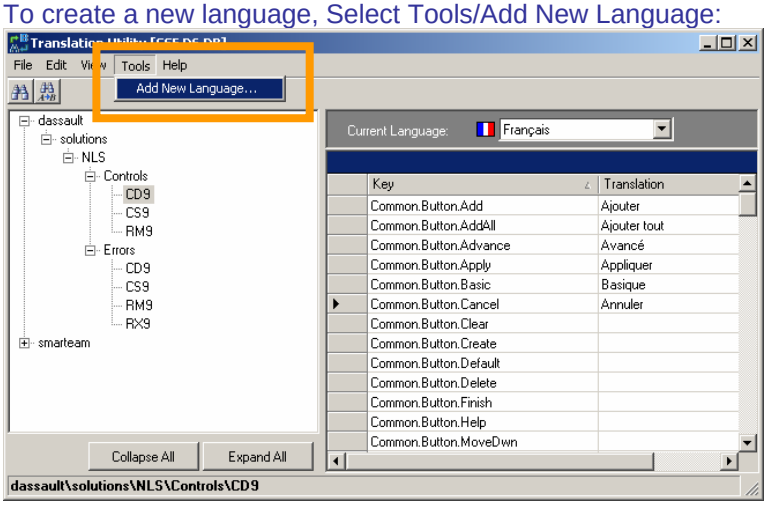
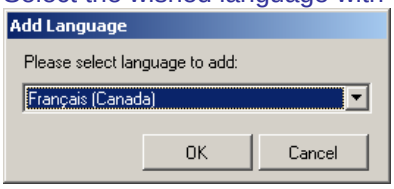
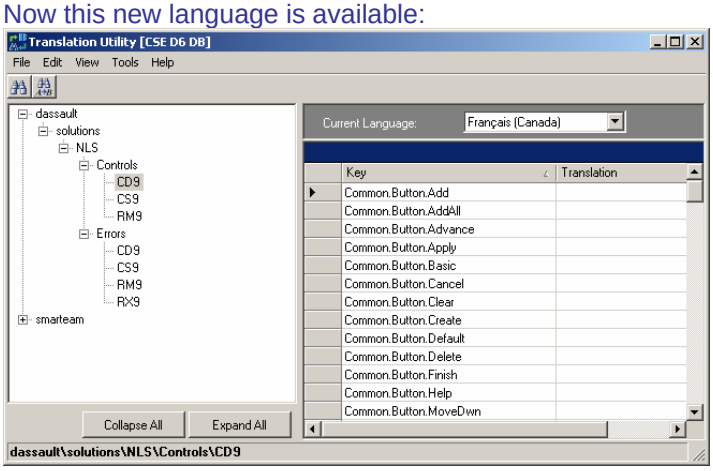
To create a new language, Select Tools/Add New Language:



Select the wished language with variant if wanted and then click on button OK



Now this new language is available:



Then translate the different commands.
If there are few differences between the language without variant and his variant, it can be more efficient to manipulate directly the xml files containing the different translations.

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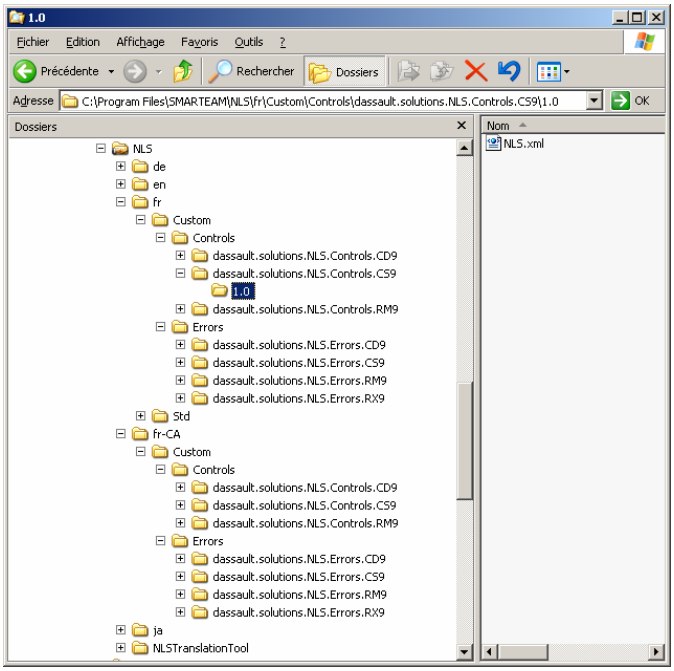
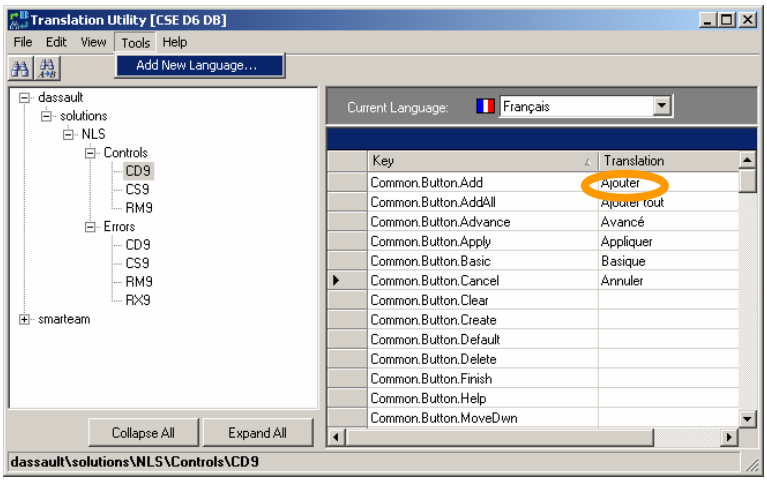
The example below is given after creation of French (France) and French (Canada) languages.



If translation exists for French language, copy the fr directory in fr-CA directory. Modify the xml files in fr-CA directory take account of translation differences between fr and fr-CA language.

Here is the corresponding between graphical user interface and corresponding XML file.




```
<?xml version="1.0" encoding="utf-8"?>
<nls xmlns="http://www.smarteam.com/dev/ns/NLS/1.0" xmlns:xsi='
  <info>
    <language>fr</language>
    <translation>Custom</translation>
    <namespace>dassault.solutions.NLS.Controls.CD9</namespace>
    <version>1.0</version>
  </info>
  <items>
    <item ID="Common.Button.Add">
      <messageTex >Ajouter</ /messageText>
    </item>
```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11. 9th step : Check the parameters

So as to compare two databases you can use the tool *Database Report Utility* (This tool is provided with SmartDBTools BPC).

You can export ENOVIA SmarTeam database parameters in a text file (1) (so as to perform a "diff" between two databases) and/or an Excel file (2) (more readable).

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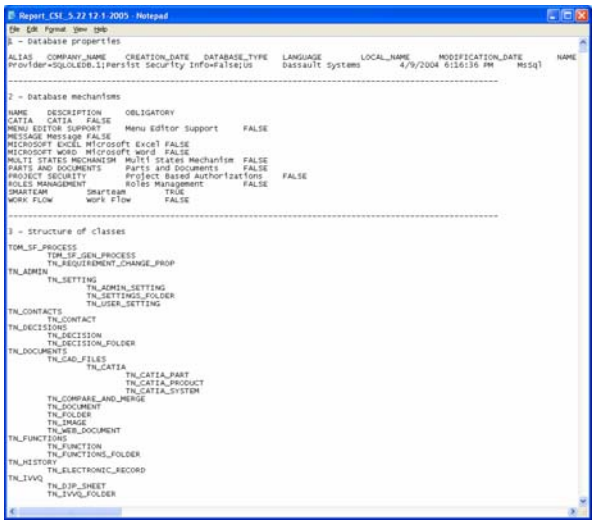
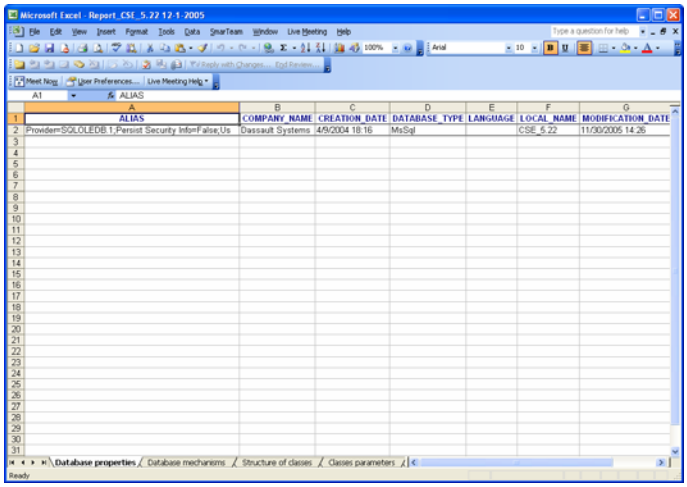
1 - Text report



2 - Excel report



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