

SpeedUp Development, Maintenance and/or Migration with



Axel Oberländer and James Ryan



Speakers Bio

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Developer: since 1983
CA 2E: since 1988
CA Plex: since 1995 (Obsydian r1.02)
Club Lava
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Company: jaysys GmbH
Developer: since 1981
CA 2E: since 1987
CA Plex: since 1995 (Obsydian r1.02)

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Employees TSD(Group)

6+(30)

- 3(12) Development
- 2(4) Consulting, Services and Support
- 1(3) Marketing and Sales
- 1(3) Backoffice

External Contractors
•5(8)

Company

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Steinhauserstrasse 160A
42399 Wuppertal

Partners

5 in D, CH and I

Customers

> 70 companies and organisations, in D-I-CH



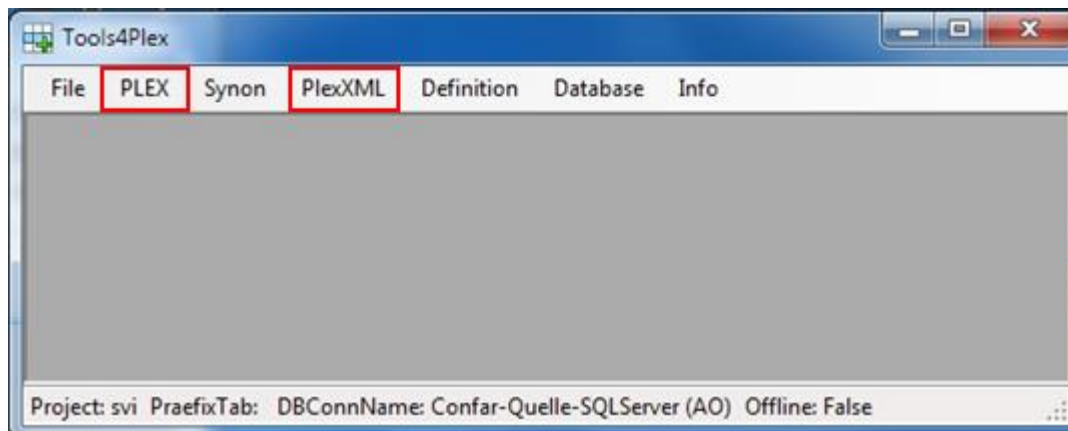
About Tools4Plex...

- A productivity tool for CA Plex
- The story behind the tool
- What do we have right now
- Where do we want to go



About Tools4Plex...

A productivity tool for CA Plex



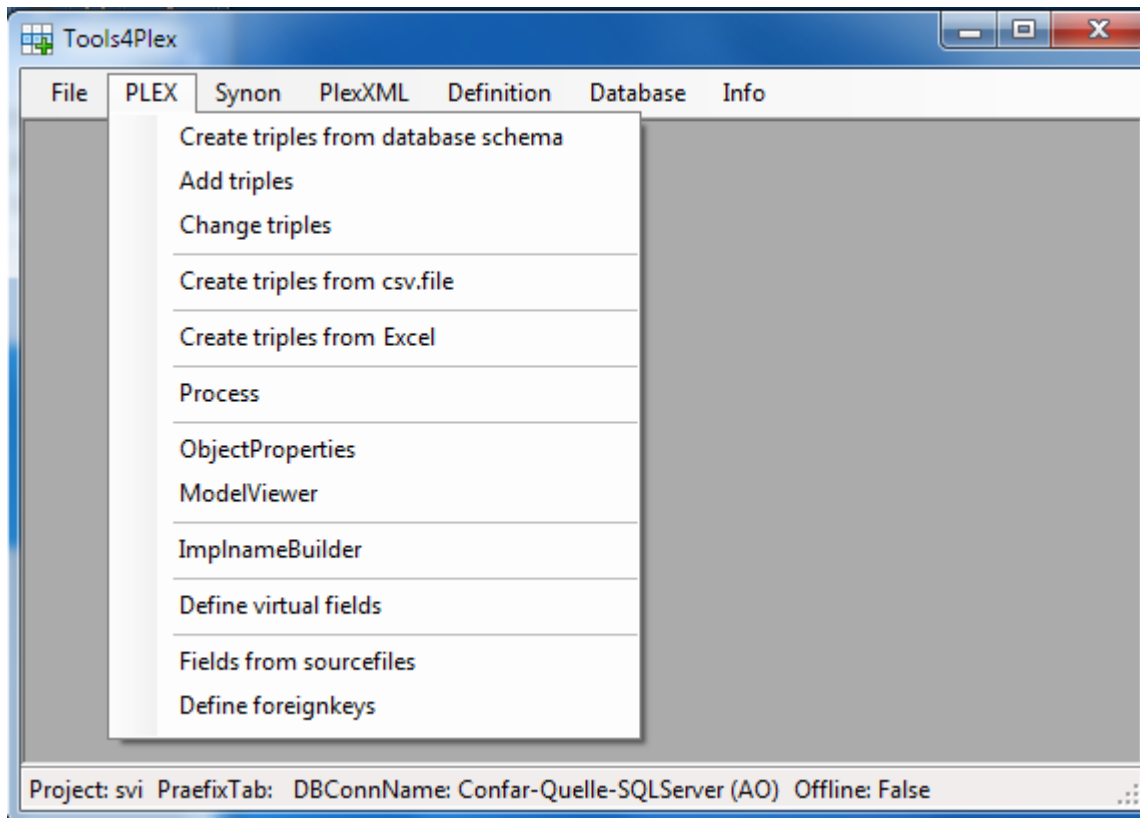
Tools4Plex has a wide range of functionality

This presentation is primarily concerned with the menu options **PLEX** and **PlexXML**

About Tools4Plex...

A productivity tool for CA Plex

Menu option: PLEX



Assists in creating triples for

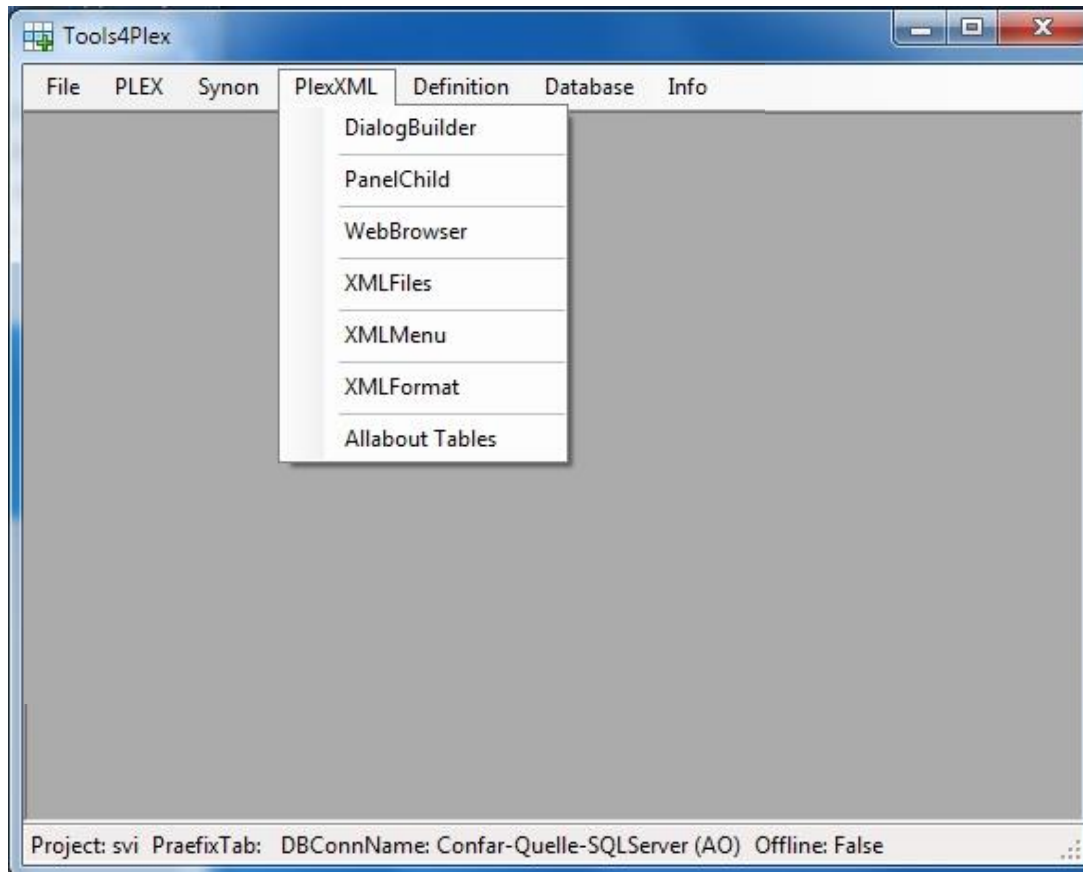
- datamodel and inheritance definition
- creating or changing name triples
- creating field values and literals
- from .csv, Excel, database schemas, ...
- ...



About Tools4Plex...

A productivity tool for CA Plex

Menu option: PlexXML



PlexXML is one View framework that we use.

Tools4Plex assists in creating the files necessary to generate the possible PlexXML dialogs

- the user interface
- diverse functionality
- View controls (buttons, links, ...)



About Tools4Plex...

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- Where do we want to go



About Tools4Plex...

The story behind the tool

- Early 2011 Thomas joined us as a developer.
- Main skills: software architect, developer, DB-designer, .Net, SQL, ...
- Learning CA Plex was his first task.
- He explored the Plex model api and quickly began to automate tasks he considered manually repetitive ... **Tools4Plex** was born.
- Since then, we haven't look back

About Tools4Plex...

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- Where do we want to go



Positioning Tools4Plex

Development process:

Datamodel design

- Build the datamodel (inside CA Plex)
 - Entities, Views & Indexes
 - Fields, Labels & Values
 - Relations
 -
- Analyse the functional groups, determine inheritance
- Define and create the inheritance triples
- Develop functionality
- time passes, new requirements, new systems,
- Refactoring and migration

Tools4Plex
Tools4Plex
Tools4Plex

Tools4Plex

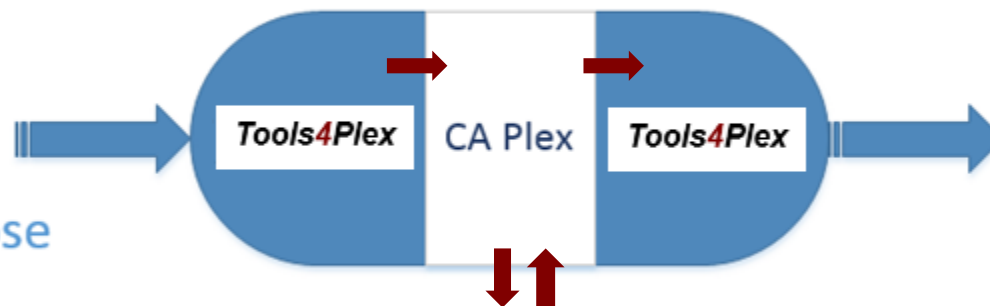
Tools4Plex
Tools4Plex



Positioning Tools4Plex

The quintessence of **Tools4Plex**

CA Erwin
Excel
.csv
Schema
Synon
Oracle
Rational Rose
JDE
XML
UML
...



PlexXML
WebClient i+
.Net
Win FC
...others

Tools4Plex
Mass modeling



Positioning Tools4Plex

Mass modeling

- add multiple triples
- change multiple triples
- name refactoring
- language translation
- model translation

About Tools4Plex...

- A productivity tool for CA Plex
- The story behind the tool
- **What do we have right now**
- Where do we want to go



Different aspects of Tools4Plex

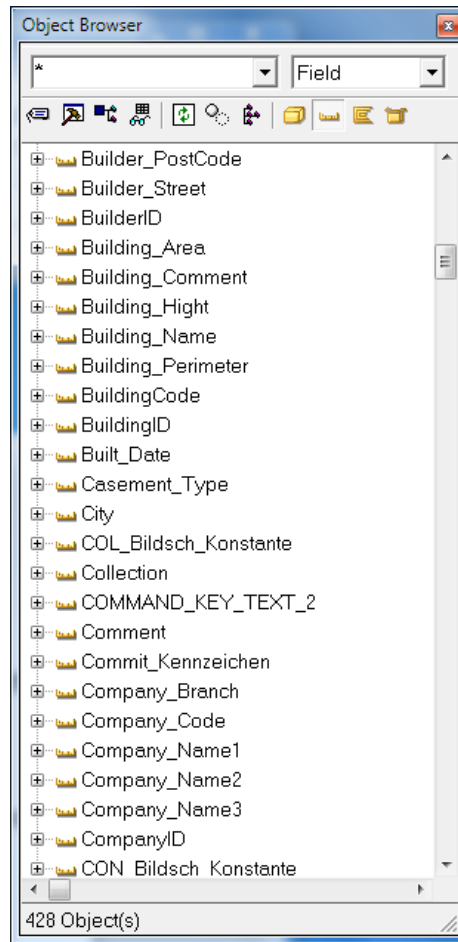
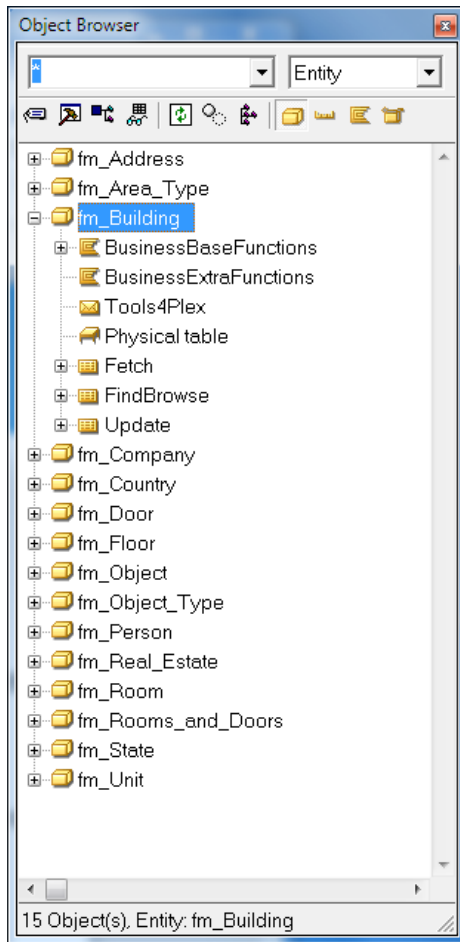
Main processes → Menu PLEX → *Create triples from Schema*

The screenshot shows the 'Create triple from database schema' application. The left pane displays a tree view of the database schema, including tables like 'fm_Building' and 'fm_BuildingID'. The right pane shows a table of generated triples. The table has the following columns: TripleName, SourceObjName, VerbName, TargetObjName, TargetObjType, TargetIsTriple, TargetIsModifiable, IsScoped, ParentTripleID, and ContTriple. The 'Contains' triple is highlighted.

TripleName	SourceObjName	VerbName	TargetObjName	TargetObjType	TargetIsTriple	TargetIsModifiable	IsScoped	ParentTripleID	ContTriple
Contains:	Contains:	Contains:	Contains:	Equals:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Equals:	<input type="checkbox"/>
fm_Building / EntIsEnt / RelationalTable	fm_Building	EntIsEnt	RelationalTable		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
fm_Building.Physical table / TblImplNme / fm_Buildi...	fm_Building.Physical tab...	TblImplNme	fm_Building		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
fm_Building.Physical table / TblFileNme / fm_Building	fm_Building.Physical tab...	TblFileNme	fm_Building		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
fm_Building / EntKnownFld / BuildingID	fm_Building	EntKnownFld	BuildingID		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
BuildingID / FldIsFld / Decimal	BuildingID	FldIsFld	Decimal		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
BuildingID / FldLengthNbr / 9	BuildingID	FldLengthNbr	9		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
BuildingID / FldLeftLbl / BuildingID	BuildingID	FldLeftLbl	BuildingID		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
BuildingID / FldTopLbl / BuildingID	BuildingID	FldTopLbl	BuildingID		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
BuildingID / FldImplNme / BuildingID	BuildingID	FldImplNme	BuildingID		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
fm_Building / EntHasFld / BuildingCode	fm_Building	EntHasFld	BuildingCode		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Trp / TrpOptionalityAtrSys / Optional	Trp	TrpOptionalityAtrSys	Optional		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
BuildingCode / FldIsFld / ShortDescription	BuildingCode	FldIsFld	ShortDescription		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
BuildingCode / FldLengthNbr / 20	BuildingCode	FldLengthNbr	20		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
BuildingCode / FldLeftLbl / BuildingCode	BuildingCode	FldLeftLbl	BuildingCode		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
BuildingCode / FldTopLbl / BuildingCode	BuildingCode	FldTopLbl	BuildingCode		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
BuildingCode / FldImplNme / BuildingCode	BuildingCode	FldImplNme	BuildingCode		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
fm_Building / EntHasFld / Building_Name	fm_Building	EntHasFld	Building_Name		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Trp / TrpOptionalityAtrSys / Optional	Trp	TrpOptionalityAtrSys	Optional		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Building_Name / FldIsFld / VaryCharacter	Building_Name	FldIsFld	VaryCharacter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Building_Name / FldLengthNbr / 25	Building_Name	FldLengthNbr	25		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Building_Name / FldLeftLbl / Building_Name	Building_Name	FldLeftLbl	Building_Name		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Building_Name / FldTopLbl / Building_Name	Building_Name	FldTopLbl	Building_Name		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Building_Name / FldImplNme / Building_Name	Building_Name	FldImplNme	Building_Name		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
fm_Building / EntHasFld / Building_Area	fm_Building	EntHasFld	Building_Area		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Trp / TrpOptionalityAtrSys / Optional	Trp	TrpOptionalityAtrSys	Optional		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Building_Area / FldIsFld / Decimal	Building_Area	FldIsFld	Decimal		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Building_Area / FldLengthNbr / 9	Building_Area	FldLengthNbr	9		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

Different aspects of Tools4Plex

Main processes → Menu PLEX → *Creating triples*



Results in CA Plex
ObjectBrowser

All objects made real.

Fields inherit from the
required base fields.



An example in numbers...

Textile industry - ERP/PPS system written in Synon

- 500 Entities
- 8.500 Fields
- with 14.400 Labels
- 215.500 Values (with inherited values, absolute 33.500)
- 5.400 Attributes
- 18.500 ImplNames & FileNames (autonaming?)
- 400 Qualifier
- 490 Physical tables
- 1.470 Views
- = 85.000 Object definitions

An example in numbers...

Textile industry - ERP/PPS system written in Synon

= 85.000 Object definitions / triples / ...

+ error correction

+ quality control

=

With Tools4Plex in less than one day !



Different aspects of Tools4Plex

Main processes → Menu PLEX → *.csv-import*

Example: import of a db-schema in *.csv-format*

```
Schema1.csv - Editor
Datei Bearbeiten Format Ansicht ?
ENTITY; TABNAME; FIELD; AllowDBNull; KeyIndex; FldImplNme; FldIsFld; FldLengthNbr; FldTopLbl; FldLeftLbl
MyTable; MyTableImplName; Feld1; 0; 1; Feld1_Name; MyInheritedField; 110; TopLabel_Feld1; Left_Label_Feld1
MyTable; MyTableImplName; Feld2; 1; 1; Feld2_Name; MyInheritedField; 11; TopLabel_Feld2; Left_Label_Feld2
MyTable; MyTableImplName; Feld3; 0; 0; Feld3_Name; MyInheritedField; 15; TopLabel_Feld3; Left_Label_Feld3
MyTable; MyTableImplName; Feld4; 1; 0; Feld4_Name; MyInheritedField; 111; TopLabel_Feld4; Left_Label_Feld4
MyTable; MyTableImplName; Feld5; 0; 0; Feld5_Name; MyInheritedField; 40; TopLabel_Feld5; Left_Label_Feld5
```

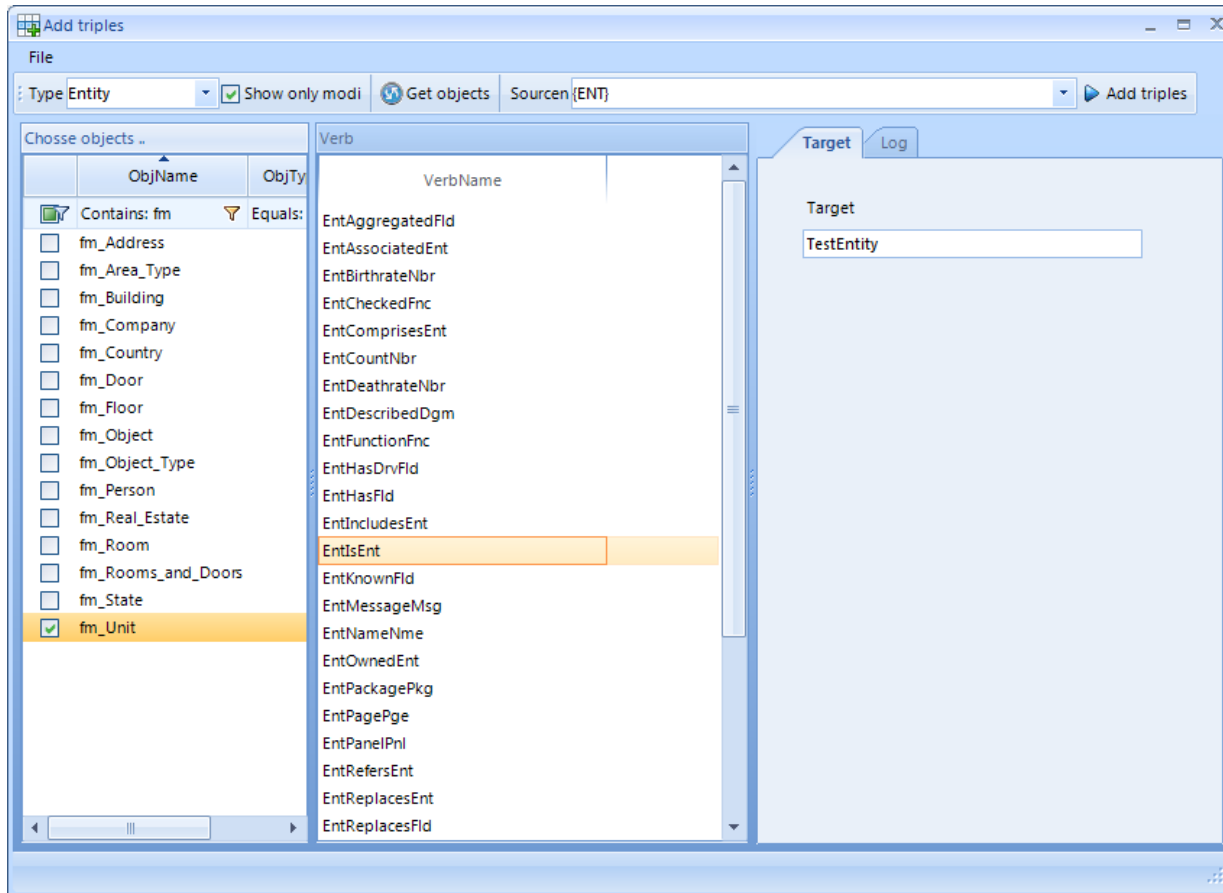
The screenshot shows the Tools4Plex interface. On the left, a tree view displays the hierarchy of entities and fields. The 'MyTable' entity is expanded, showing its 'Feld1' field. The 'Feld1' field is also expanded, showing its properties. On the right, a table displays the properties of 'MyTable' and 'Feld1'.

Entity	Property	Value
MyTable	known by	Feld1
	is a	MyInheritedField
	length	110
	left label	Left_Label_Feld1
	top label	TopLabel_Feld1
	impl name	Feld1_Name
Feld1	known by	Feld2
	is a	MyInheritedField
	length	11
	left label	Left_Label_Feld2
	top label	TopLabel_Feld2
	impl name	Feld2_Name



Different aspects of Tools4Plex

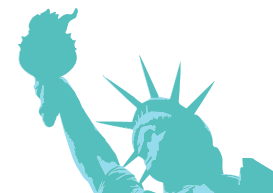
Main processes → Menu PLEX → *Add triples*



Depending on the selected objects and verb names, new triples are created.

Example:
EntIsEnt

DEMO



Different aspects of Tools4Plex

Main processes → Menu PLEX → *Change triples*

Change triples

File

Type Entity Show only modi Get objects Sourcen (ENT).Physical table Get triples Create new target Actions

Chosse objects ..

ObjName
Contains: fm_
<input checked="" type="checkbox"/> fm_Address
<input checked="" type="checkbox"/> fm_Area_Type
<input checked="" type="checkbox"/> fm_Building
<input checked="" type="checkbox"/> fm_Company
<input checked="" type="checkbox"/> fm_Country
<input checked="" type="checkbox"/> fm_Door
<input checked="" type="checkbox"/> fm_Floor
<input checked="" type="checkbox"/> fm_Object
<input checked="" type="checkbox"/> fm_Object_Type
<input checked="" type="checkbox"/> fm_Person
<input checked="" type="checkbox"/> fm_Real_Estate
<input checked="" type="checkbox"/> fm_Room
<input checked="" type="checkbox"/> fm_Rooms_and_Doors
<input checked="" type="checkbox"/> fm_State
<input checked="" type="checkbox"/> fm_Unit

Choose verben ...

VerbName
Contains:
<input type="checkbox"/> TbIFileNme
<input checked="" type="checkbox"/> TbIImplementSys
<input type="checkbox"/> TbIImplNme

Triples Log

Drag a column here to group by this column.

SourceObjName	VerbName	TargetObjName	TargetPreview
Contains:	Contains:	Contains:	Contains:
fm_Address.Physical table	TbIImplementSys	No	Yes
fm_Area_Type.Physical table	TbIImplementSys	No	Yes
fm_Building.Physical table	TbIImplementSys	No	Yes
fm_Company.Physical table	TbIImplementSys	No	Yes
fm_Country.Physical table	TbIImplementSys	No	Yes
fm_Door.Physical table	TbIImplementSys	No	Yes
fm_Floor.Physical table	TbIImplementSys	No	Yes
fm_Object.Physical table	TbIImplementSys	No	Yes
fm_Object_Type.Physical table	TbIImplementSys	No	Yes
fm_Person.Physical table	TbIImplementSys	No	Yes
fm_Real_Estate.Physical table	TbIImplementSys	No	Yes
fm_Room.Physical table	TbIImplementSys	No	Yes
fm_Rooms_and_Doors.Physical table	TbIImplementSys	No	Yes
fm_State.Physical table	TbIImplementSys	No	Yes
fm_Unit.Physical table	TbIImplementSys	No	Yes

Change target

Create preview

Target new Yes

Replacement Replacement

Create preview

Change substrng in preview ...

Function

Replace

Add before

Add after

Position

Start Mid End

Old substrng

New substrng

Change preview

SelectOptions

Verbs with OR condition

Verbs with AND condition

Different aspects of Tools4Plex

Main processes → Menu PLEX → *Process*

The screenshot shows the Tools4Plex application window titled 'App - Steps 2'. The interface includes a menu bar with options like 'File', 'Refresh', 'Process ...', 'Get PLEX-Objects', 'Run Process', 'Master data', 'Save SynonObjects to Files', 'Show Log', and 'Show Log Message'. The main area is divided into two panes. The left pane, titled 'Process-ProcessSteps', shows a list of process steps with checkboxes and a 'Nr' column. The right pane, titled 'Qualifier', 'Field', 'Entity', and 'Log', displays a table of objects with columns 'ObjName', 'ObjType', and 'Len'. The 'fm_Address' object is highlighted in orange.

ObjName	ObjType	Len
Contains:	Equals:	Equals:
<input checked="" type="checkbox"/> fm_Address	5	10
<input checked="" type="checkbox"/> fm_Area_Type	5	12
<input checked="" type="checkbox"/> fm_Building	5	11
<input checked="" type="checkbox"/> fm_Company	5	10
<input checked="" type="checkbox"/> fm_Country	5	10
<input checked="" type="checkbox"/> fm_Door	5	7
<input checked="" type="checkbox"/> fm_Floor	5	8
<input checked="" type="checkbox"/> fm_Object	5	9
<input checked="" type="checkbox"/> fm_Object_T...	5	14
<input checked="" type="checkbox"/> fm_Person	5	9
<input checked="" type="checkbox"/> fm_Real_Est...	5	14
<input checked="" type="checkbox"/> fm_Room	5	7
<input checked="" type="checkbox"/> fm_Rooms_...	5	18
<input checked="" type="checkbox"/> fm_State	5	8
<input checked="" type="checkbox"/> fm_Unit	5	7

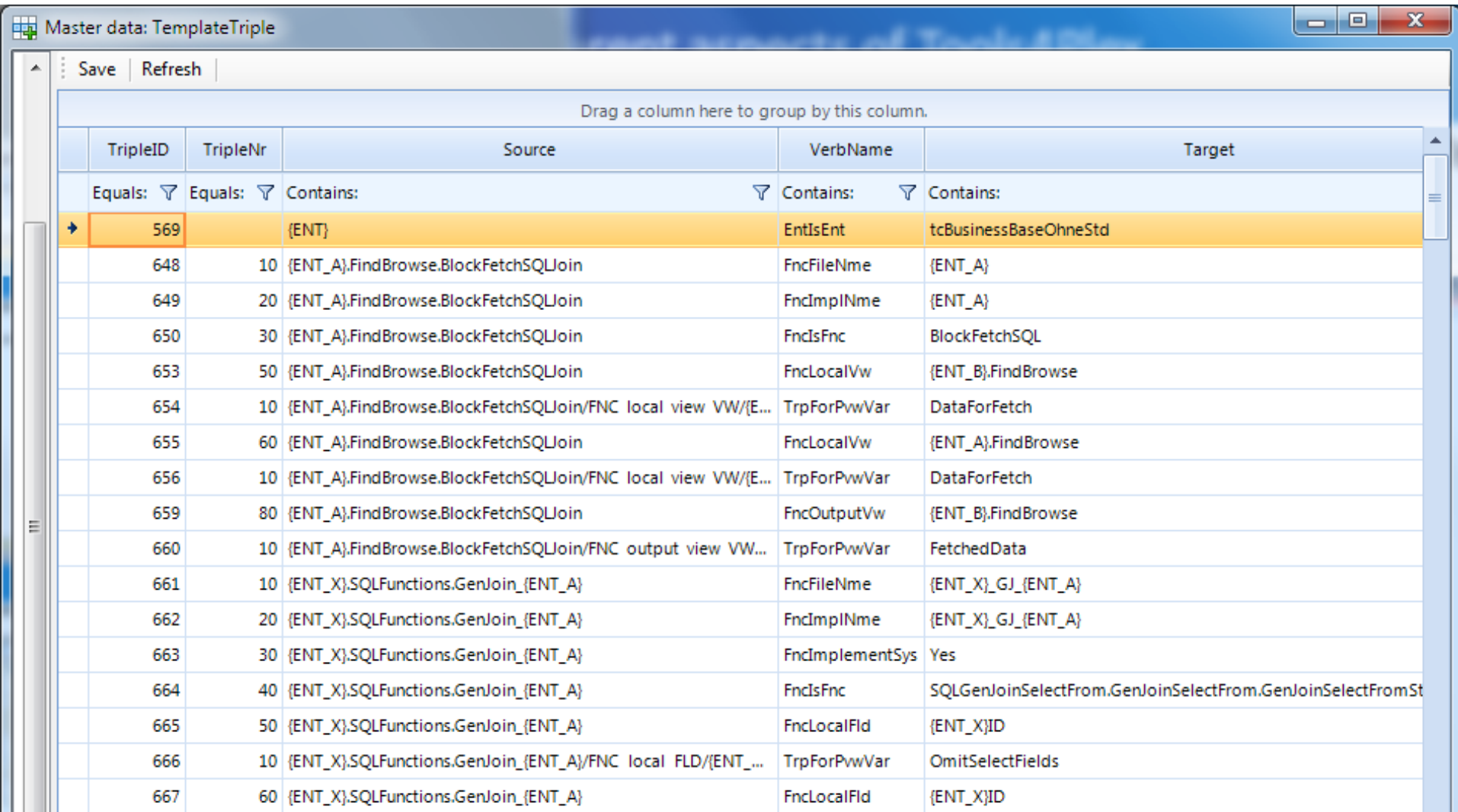
What was just shown, can be packaged into process-steps (which can contain **triple templates**) and executed against selected objects.



Different aspects of Tools4Plex

Main processes → Menu PLEX → *Template triples*

View of predefined triple-templates



Master data: TemplateTriple

Save Refresh

Drag a column here to group by this column.

TripleID	TripleNr	Source	VerbName	Target
Equals: ▾	Equals: ▾	Contains: ▾	Contains: ▾	Contains: ▾
→ 569		{ENT}	EntIsEnt	tcBusinessBaseOhneStd
648	10	{ENT_A}.FindBrowse.BlockFetchSQLJoin	FncFileNme	{ENT_A}
649	20	{ENT_A}.FindBrowse.BlockFetchSQLJoin	FncImplNme	{ENT_A}
650	30	{ENT_A}.FindBrowse.BlockFetchSQLJoin	FncIsFnc	BlockFetchSQL
653	50	{ENT_A}.FindBrowse.BlockFetchSQLJoin	FncLocalVw	{ENT_B}.FindBrowse
654	10	{ENT_A}.FindBrowse.BlockFetchSQLJoin/FNC local view VW/{E...	TrpForPvwVar	DataForFetch
655	60	{ENT_A}.FindBrowse.BlockFetchSQLJoin	FncLocalVw	{ENT_A}.FindBrowse
656	10	{ENT_A}.FindBrowse.BlockFetchSQLJoin/FNC local view VW/{E...	TrpForPvwVar	DataForFetch
659	80	{ENT_A}.FindBrowse.BlockFetchSQLJoin	FncOutputVw	{ENT_B}.FindBrowse
660	10	{ENT_A}.FindBrowse.BlockFetchSQLJoin/FNC output view VW...	TrpForPvwVar	FetchData
661	10	{ENT_X}.SQLFunctions.GenJoin_(ENT_A)	FncFileNme	{ENT_X}_GJ_(ENT_A)
662	20	{ENT_X}.SQLFunctions.GenJoin_(ENT_A)	FncImplNme	{ENT_X}_GJ_(ENT_A)
663	30	{ENT_X}.SQLFunctions.GenJoin_(ENT_A)	FncImplementSys	Yes
664	40	{ENT_X}.SQLFunctions.GenJoin_(ENT_A)	FncIsFnc	SQLGenJoinSelectFrom.GenJoinSelectFrom.GenJoinSelectFromSt
665	50	{ENT_X}.SQLFunctions.GenJoin_(ENT_A)	FncLocalFld	{ENT_X}ID
666	10	{ENT_X}.SQLFunctions.GenJoin_(ENT_A)/FNC local FLD/{ENT_...	TrpForPvwVar	OmitSelectFields
667	60	{ENT_X}.SQLFunctions.GenJoin_(ENT_A)	FncLocalFld	{ENT_X}ID

Different aspects of Tools4Plex

Main processes → Menu PLEX → *Process*

Additional process-steps can be added that execute things like:

- Delete files from GEN-directory
- Generate and Build operations
- Groupmodel operations
- Tools4Plex-database operations
- Check future length of automatically generated implnames and filenames
- ...

DEMO



Different aspects of Tools4Plex

Main processes → Menu PLEX → *ModelViewer*

The screenshot shows the PLEX Model-Viewer application interface. The left pane displays a hierarchical tree view of the model structure, including entities like fm_Person, fm_Rooms_and_Doors, and fm_Object, along with their target objects and dependencies. The right pane shows the details for the selected object, 'fm_Object.Fetch.CheckRow', with a table of properties and a detailed description of its function and modification history.

Name	Value
ObjID	232826640
ObjName	fm_Object.Fetch.CheckRow
ObjType	7
ObjTypeAsText	Function
ObjFullName	Function: fm_Object.Fetch.CheckRow
OriginalName	
IsObjModifiable	True
IsObjModified	False
IsObjATriple	False
IsObjVirtual	False
IsTripleVirtual	False
Narrative	
LPTxt	
FULLPTxt	*+1 Function*+2 Comment Copyright 2004 Computer Associates International, Inc. All Rights Reserv...
ObjScope	377359440
ObjLastChangeDate	28.06.2013 16:43:40
ObjOwner	107333472
CountDep	

Left (TreeView)
Explore all types of objects with its target objects, triples, attributes and dependencies

Right (Details)

- ObjectProperties
- ActionDiagram if available

DEMO?

2E/PLEX

plex2e.com

2013 WORLDWIDE DEVELOPER CONFERENCE

Different aspects of Tools4Plex

Main processes → Menu PLEX → *Define virtual fields*

Define virtual field JoinedGrid

Entities

- AC1_Accessorio (AC1_AccessIo)
- AC2_Colore_Accessorio (AC2_ColorAccIo)
- AC3_Accessorio_Fornitore (AC3_AccIoFornitE)
- AC4_Colore_Acc_Fornitore (AC4_ColorAccFornitE)
- AC5_Misura_Accessorio (AC5_MisuraAccessIo)
- AC6_Misura_Acc_Fornitore (AC6_MisuraAccFornitE)
- AC7_Nota_Accessori (AC7_NotaAccI)
- AC8_Prezzo_Acquisto (AC8_PrezzoAcquisto)**
 - T27_Classe_Merceologica (T27_Classe_Merceologica)
 - AC1_Codice_Accessorio (AC1_Codice_Accessorio)
 - FR1_Codice_Fornitore (FR1_Codice_Fornitore)
 - AC3_Principale_Secondario (AC3_Principale_Secondar...)
 - AC2_Codice_Colore_Acces (AC2_Codice_Colore_Acces)
 - T50_Codice_Misura (T50_Codice_Misura)
 - ACX_Prezzo_Accessorio (ACX_Prezzo_Accessorio)
 - T09_Codice_Valuta (T09_Codice_Valuta)
- AC9_Pulizia_Accessori (AC9_PuliziaAccessI)
 - T27_Classe_Merceologica (T27_Classe_Merceologica)
 - AC1_Codice_Accessorio (AC1_Codice_Accessorio)
 - AC2_Codice_Colore_Acces (AC2_Codice_Colore_Acces)
 - T50_Codice_Misura (T50_Codice_Misura)
- AGE_Agenda_Telefonica (AGE_AgendaTelefon)
 - AGE_Codice_Agenda (AGE_Codice_Agenda)
 - AGE_Progressivo_Contatto (AGE_Progressivo_Contatto)
 - AGE_Contatto (AGE_Contatto)
 - AGE_N_Telefono (AGE_N_Telefono)
 - AGE_N_FAX (AGE_N_FAX)
 - AGE_N_Cellulare (AGE_N_Cellulare)
 - AGE_N_Telefono_Ab (AGE_N_Telefono_Ab)
 - AGE_Descrizione (AGE_Descrizione)
- BD1_Testata_Documento (BD1_TestDocum)
- BD2_Testata_Bolla (BD2_TestBolla)

ProjectID	ParentEnt	Ent	Fld	ComboBox
fm5	fm_RealEstate	fm_Building	RealEstateName	<input type="checkbox"/>
fm5	fm_RealEstate	fm_Building	StateID	<input type="checkbox"/>
fm5	fm_RealEstate	fm_Building	Street	<input type="checkbox"/>
fm4	fm_RealEstate	fm_Building	City	<input type="checkbox"/>
fm4	fm_RealEstate	fm_Building	CountryID	<input type="checkbox"/>
fm4	fm_RealEstate	fm_Building	PostCode	<input type="checkbox"/>
fm4	fm_RealEstate	fm_Building	RealEstateCode	<input type="checkbox"/>
fm4	fm_RealEstate	fm_Building	RealEstateName	<input type="checkbox"/>
fm4	fm_RealEstate	fm_Building	StateID	<input type="checkbox"/>
fm4	fm_RealEstate	fm_Building	Street	<input type="checkbox"/>
fm3	fm_Real_Estate	fm_Building	City	<input type="checkbox"/>
fm3	fm_Real_Estate	fm_Building	CountryID	<input type="checkbox"/>
fm3	fm_Real_Estate	fm_Building	PostCode	<input type="checkbox"/>
fm3	fm_Real_Estate	fm_Building	RealEstate_Code	<input type="checkbox"/>
fm3	fm_Real_Estate	fm_Building	RealEstate_Name	<input type="checkbox"/>
fm3	fm_Real_Estate	fm_Building	StateID	<input type="checkbox"/>
fm3	fm_Real_Estate	fm_Building	Street	<input type="checkbox"/>
fm4	fm_Address	fm_Company	City	<input type="checkbox"/>
fm4	fm_Address	fm_Company	CountryID	<input type="checkbox"/>
fm4	fm_Address	fm_Company	PostCode	<input type="checkbox"/>
fm4	fm_Address	fm_Company	StateID	<input type="checkbox"/>
fm4	fm_Address	fm_Company	Street	<input type="checkbox"/>
fm3	fm_Address	fm_Company	City	<input type="checkbox"/>
fm3	fm_Address	fm_Company	CountryID	<input type="checkbox"/>
fm3	fm_Address	fm_Company	PostCode	<input type="checkbox"/>

Left (TreeView)

All entities with all their attributes, to define the fields that can **act** as virtual fields, when not defined in your model.

This is required for the PlexXML UI



Different aspects of Tools4Plex

Main processes → Menu PLEX

End of Part 1

Need more?

Different aspects of Tools4Plex

Main processes → Menu PlexXML

- ***PlexXML DialogBuilder***

Create and store browserbased standardpanels for the administration of all the tables in a breath.

- Tabular view (Grid)
- Detailpanel with editing functionality
- combined tabular and detail panels
- MasterDetail and MasterTab

- ***PanelChildBuilder***

Definition of more complex dialogs by combining existing panels.

Different aspects of Tools4Plex

PlexXML... the beginning

- Who knows PlexXML?
- Who uses PlexXML?
- What is PlexXML?
A dynamic CA Plex web client using XML and Ajax
- I began with PlexXML in 2009 and had quick success with the tutorial, however...
- PlexXML relies heavily on Java/xsl/xslt technology, which I don't know that well, being a tool person.
- “Anything difficult to do manually, should be automated”
Tools4Plex for PlexXML was born
- Following the development of **Tools4Plex for PlexXML**, most of the steps necessary to get the PlexXML based UI and functionality up and running was automated (2011/2012)



Different aspects of Tools4Plex

Main processes → Menu PlexXML → *DialogBuilder*

Ent	DialogType	Template	ContentText
fm_Build	Contains	Contains	Contains
fm_Building	FindBrowse	FindBrowse_Buttons.xml	<?xml version="1.0" encoding="UTF-8"?> <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
fm_Building	FindBrowse	Request_FB.xml	<!-- Building --> <webrequest name="fm_Building_XML_FB_FB"> <request name="fm_Building_XML_FB_FB" extends="FindBrowse"/> <response> <error type="default" name="DEFAULT"/> <reaction type="DEFAULT" target="DISPLAY" localized="true" name="/WEB-INF/TC_FM...> </response> </webrequest>
fm_Building	MasterDetail	Master_Detail.xslt	<?xml version="1.0" encoding="UTF-8"?> <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
fm_Building	MasterDetail	Request_MD.xml	<!-- fm_Building_Comment_MD Master Detail --> <webrequest name="fm_Building_Comment_MD">
fm_Building	MasterDetail	Master_Detail.xslt	<?xml version="1.0" encoding="UTF-8"?> <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform"> <xsl:import href="/WEB-INF/resources/common/DictionaryBase.xslt"/> <xsl:include href="/WEB-INF/customized/locale/messages.xslt"/> <xsl:include href="/WEB-INF/security/locale/messages.xslt"/>
fm_Building	MasterDetail	Request_MD.xml	<!--Master/Detail--> <!-- fm_Building_Floor_MD Master Detail --> <webrequest name="fm_Building_Floor_MD">
fm_Building	MasterTAB	Master_TAB1.xsl	<?xml version="1.0" encoding="utf-8"?> <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
fm_Building	MasterTAB	Request_TAB1.xml	<!-- fm_Building_TAB Master tab --> <webrequest name="fm_Building_TAB"> <request-handler>
fm_Building	Update	Controler_FB_Select.xml	



Different aspects of Tools4Plex

Main processes → Menu PlexXML → *DialogBuilder*

The screenshot displays the PLEX-XAL application interface. On the left is a navigation tree with folders like 'fm4', 'PanelChild', and 'Special'. The main area shows a table titled 'Address' with columns: AddressID, PostCode, City, Street, CountryName, Countr..., State, and StateC... The table contains 7 records, with the third record (AddressID: 3, PostCode: 95014, City: Cupertino, Street: 1 Infinite Loop) highlighted. Below the table is an 'Edit' section with 'Save', 'Cancel', and 'Delete' buttons. A 'PanelChild dialog' is open, showing input fields for AddressID (3), PostCode (95014), City (Cupertino), Street (1 Infinite Loop), Postbox, and Comment. It also features dropdown menus for CountryCode (US) and StateCode (CA). The interface includes a top menu bar with 'Tester | Logout | Preferences | Help' and a bottom status bar with '114 ms' and '(c) 2012 TE@MCONSULT Ltd.'

AddressID	PostCode	City	Street	CountryName	Countr...	State	StateC...
1	65760	Eschborn	Hauptstr. 233	Germany	DE	Hessen	HE
2	55A60-8	Los Angeles	122 Marina Drive	United States of Am...	US	California	CA
3	95014	Cupertino	1 Infinite Loop	United States of Am...	US	California	CA
4	71034	Böblingen	Herrenberger Str. 140	Germany	DE	Baden-Württemberg	BW
5	71139	Ehningen	IBM-Allee 1	Germany	DE	Baden-Württemberg	BW
6	65824	Schwalbach i. Ts.	Am Kronberger Han...	Germany	DE	Baden-Württemberg	BW
7	65760	Eschborn	Hauptstr. 129-135	Germany	DE	Hessen	HE

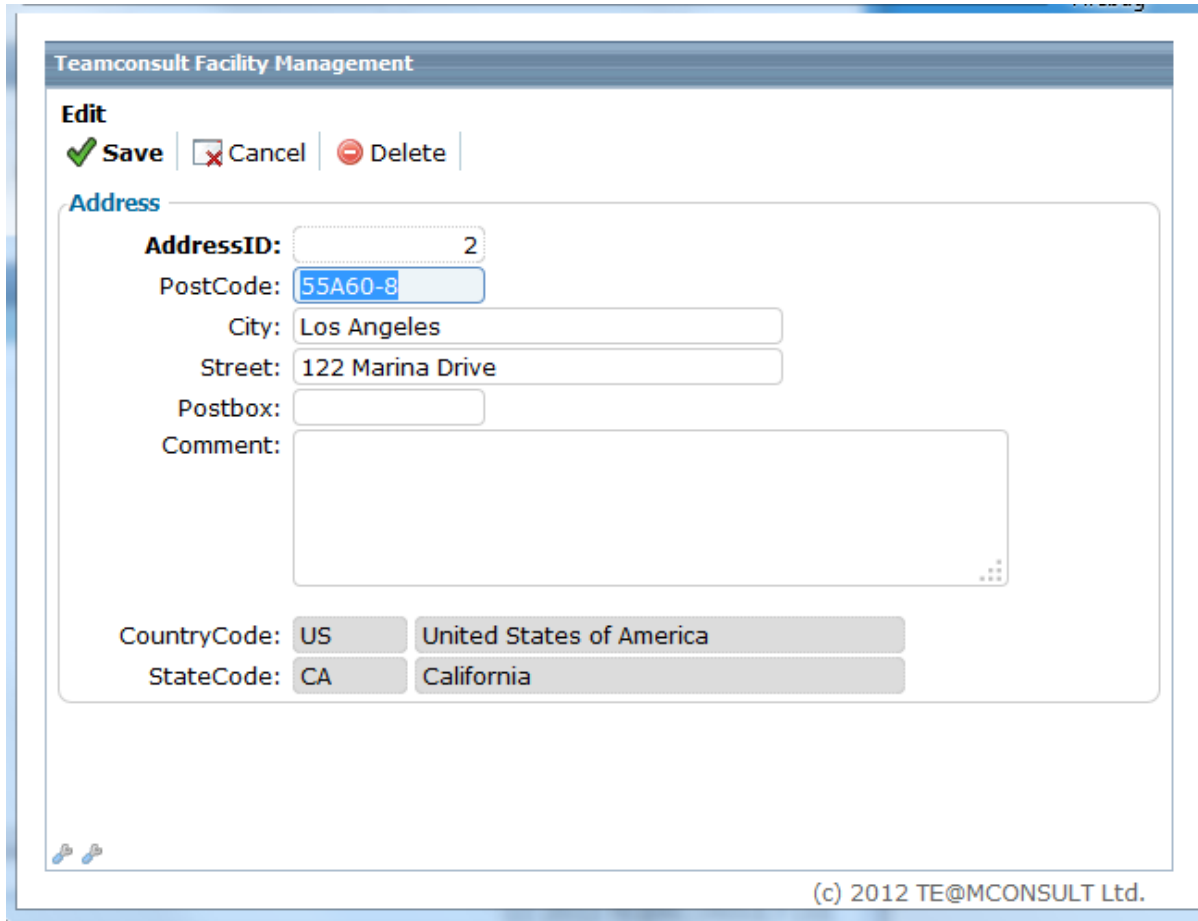
Record: 1 - 7 of 7

PanelChild dialog

AddressID: 3
PostCode: 95014
City: Cupertino
Street: 1 Infinite Loop
Postbox:
Comment:
CountryCode: US United States of America
StateCode: CA California

Different aspects of Tools4Plex

Main processes → Menu PlexXML → *DialogBuilder*



The screenshot shows a web application window titled "Teamconsult Facility Management". At the top, there is an "Edit" section with three buttons: "Save" (with a green checkmark), "Cancel" (with a red X), and "Delete" (with a red minus sign). Below this is the "Address" section, which contains several input fields: "AddressID:" with the value "2", "PostCode:" with "55A60-8", "City:" with "Los Angeles", "Street:" with "122 Marina Drive", "Postbox:" (empty), and "Comment:" (a large empty text area). At the bottom of the form, there are two rows of dropdown menus: "CountryCode:" with "US" selected and "United States of America" as the label, and "StateCode:" with "CA" selected and "California" as the label. The footer of the window contains the text "(c) 2012 TE@MCONSULT Ltd." and a small logo.

Detail view with editing functionality

Different aspects of Tools4Plex

Main processes
→ Menu PlexXML
→ *DialogBuilder*

MasterDetail
Dialog

Teamconsult Facility Management

Edit
✔ Save | ✖ Cancel | 🗑 Delete

Company

PostCode: 71139
City: Ehningen
Street: IBM-Allee 1
CountryID: 1
StateID: 1
CompanyID: 5
Company Code: IBM
Company Name1: IBM Deutschland GmbH
Company Name2:
Company Name3:
Company Branch: ITK
Legal Form: GmbH
Comment: no comment
AddressID: 5 🔍

RealEstate Address-Real_Es | Company-Real_Es | DEFAULT | PC | SEL

⏪ ⏩ 🔍 Search 📄 📧 📄 + New

	AddressID	PostCode	City	Street
🗑 📄 📧 📄 ? ?	1	65760	Eschborn	Hauptstr. 233
🗑 📄 📧 📄 ? ?	4	71034	Böblingen	Herrenberger Str. 140

Record: 1 - 2 of 2



Different aspects of Tools4Plex

Main processes → Menu PlexXML → *DialogBuilder*

Teamconsult Facility Management

Schließen

AdressID:

PostCode:

City:

Strasse:

Postbox:

PostCode:

Kommentar:

LandID:

Bundesland:

Company | **Person** | RealEstate

Suchen | Neu

PersonID	Salutation	Firstname	Surname	Phone	MobilePhone	Fax	Email1
1	Herr	Axel	Oberländer	06101/5586764	0171/7601398	06101/5586766	axel.oberlaender@teamconsul...
8	Frau	Lisa	Hausmann	06101/5586764	0171/7601399	06101/5586766	lisa.hausmann@teamconsult.de
9	Herr	Willi	Mertens	06101/5586764	0171/7601395	06101/5586766	willi.mertens@teamconsult.de
10	Herr	Thomas	Vogler-Eckermann	06101/5586764	0171/7601397	06101/5586766	thomas.vogler-eckermann@te...
11	Frau	Talia	Mackmann	06101/5586764	0171/7601332	06101/5586766	talia.mackmann@teamconsult...
12	Herr	Gerhardt	Weiss-Schnurzel	06101/5586764	0171/7601396	06101/5586766	gerd.weiss-schnurzel@teamc...

Satz: 1 - 6 von 6

262 ms (c) 2012 TE@MCONSULT Ltd.

MasterTab
Dialog

Different aspects of Tools4Plex

Main processes → Menu PlexXML → *DialogBuilder*

DEMO?



Different aspects of Tools4Plex

Main processes → Menu PlexXML → *PanelChild*

The screenshot shows the PanelChild application window. On the left, a 'Choose request' dialog is open, displaying a table with columns 'Index', 'Value', and 'Count'. The row with index 179 and value 'fm_Real_Estate_XML_FB_FB' is selected. Below the table are 'Apply' and 'Close' buttons. On the right, a 'Template' dialog is open, showing a list of requests. The 'Request' field is set to 'fm_Real_Estate_XML_FB_FB'. Below this, there are fields for 'Region' (center), 'Border' (checked), 'Height' (280), and 'Width' (450). At the bottom of the PanelChild window, there are fields for 'Prefix Request' and 'Request complete', along with a 'Save' button.

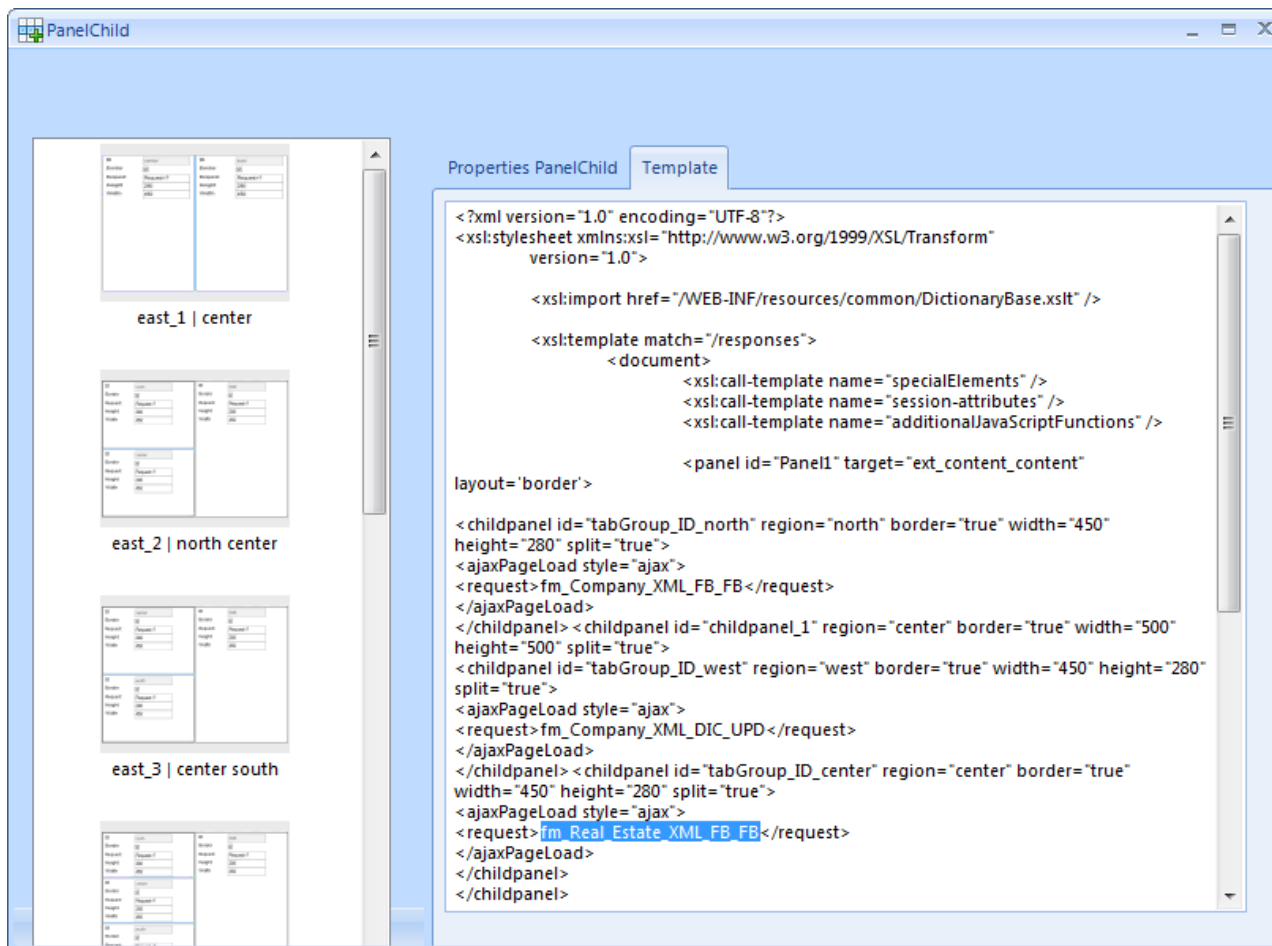
Index	Value	Count
177	fm_Person_XML_BS_SFT	1
179	fm_Real_Estate_XML_FB_FB	1
180	fm_Real_Estate_XML_DIC_INS	1
181	fm_Real_Estate_XML_DIC_UPD	1
183	fm_Real_Estate_Building_MD	1
185	fm_Real_Estate_TAB	1
187	fm_Real_Estate_XML_FB_FB_PC	1
189	fm_Real_Estate_PC	1
191	fm_Real_Estate_XML_FB_FB_Sel..	1
193	fm_Real_Estate_XML_BS_SFT	1
195	fm_Room_XML_FB_FB	1
196	fm_Room_XML_DIC_INS	1
197	fm_Room_XML_DIC_UPD	1
199	fm_Room_Object_MD	1
201	fm_Room_Rooms_and_Doors_...	1
203	fm_Room_TAB	1
205	fm_Room_XML_FB_FB_PC	1
207	fm_Room_PC	1
209	fm_Room_XML_FB_FB_Select	1
211	fm_Room_XML_BS_SFT	1
213	fm_Rooms_and_Doors_XML_FB...	1

Combine existing dialogs to get a new and powerful PanelChild dialog...



Different aspects of Tools4Plex

Main processes → Menu PlexXML → *PanelChild*



The screenshot shows the PanelChild application interface. On the left, there is a visual design area with four panels labeled 'east_1 | center', 'east_2 | north center', 'east_3 | center south', and another unlabeled panel at the bottom. Each panel contains a grid of data fields. On the right, there is an XSLT code editor with two tabs: 'Properties PanelChild' and 'Template'. The 'Template' tab is active, showing the following XSLT code:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  version="1.0">

  <xsl:import href="/WEB-INF/resources/common/DictionaryBase.xslt" />

  <xsl:template match="/responses">
    <document>
      <xsl:call-template name="specialElements" />
      <xsl:call-template name="session-attributes" />
      <xsl:call-template name="additionalJavaScriptFunctions" />

      <panel id="Panel1" target="ext_content_content"
        layout='border'>

        <childpanel id="tabGroup_ID_north" region="north" border="true" width="450"
          height="280" split="true">
          <ajaxPageLoad style="ajax">
            <request>fm_Company_XML_FB_FB</request>
          </ajaxPageLoad>
        </childpanel> <childpanel id="childpanel_1" region="center" border="true" width="500"
          height="500" split="true">
          <childpanel id="tabGroup_ID_west" region="west" border="true" width="450" height="280"
            split="true">
            <ajaxPageLoad style="ajax">
              <request>fm_Company_XML_DIC_UPD</request>
            </ajaxPageLoad>
          </childpanel> <childpanel id="tabGroup_ID_center" region="center" border="true"
            width="450" height="280" split="true">
            <ajaxPageLoad style="ajax">
              <request>fm_Real_Estate_XML_FB_FB</request>
            </ajaxPageLoad>
          </childpanel>
        </childpanel>
      </document>
    </xsl:template>
  </xsl:stylesheet>
```

...and let **Tools4Plex** generate the necessary code



Different aspects of Tools4Plex

Main processes → Menu PlexXML → *Webbrowser*

The screenshot shows a web browser window with the URL `http://localhost:8080/fm4/`. The browser displays a web application titled "Teamconsult Facility Management" with a sub-section "Address". The application has a menu bar with "DEFAULT | PanelChild | SEL | State-Address" and a toolbar with navigation and search icons. Below the toolbar is a table with columns: PostCode, City, Street, Comment, and State. The table contains several rows of address data.

PostCode	City	Street	Comment	State
71034	Böblingen	Herrenberger Str. 140		BW
71139	Ehningen	IBM-Allee 1		BW
65824	Schwalbach i. Ts.	Am Kronberger Hang 6		BW
65760	Eschborn	Hauptstr. 129-135	Comment 7	HE
65760	Eschborn	Hauptstr. 233	Comment 1	HE
55A60-8	Los Angeles	122 Marina Drive		CA
95014	Cupertino	1 Infinite Loop		CA

At the bottom of the browser window, it says "Record: 1 - 7 of 7" and "(c) 2012 TE@MCONSULT Ltd."

Automatic navigation to every generated request. of your application, to get the information written into PlexXML-database !!



Different aspects of Tools4Plex

Main processes → Menu PlexXML → XMLfiles

The screenshot shows the Tools4Plex application interface. On the left is a file explorer with a list of files and folders. The main area on the right displays an XML tree structure. Below the tree are input fields for 'Fullpath', 'Selector', and 'Selector1'.

Dateiname	Verzeichnis
fm_Object_Type_XML_FB_FB...	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Object_Type_XML_FB_FB...	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Object_XML_FB_FB.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Object_XML_FB_FB_PC.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Object_XML_FB_FB_Select...	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Person_Object_MD.xslt	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Person_PC.xslt	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Person_TAB.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Person_XML_FB_FB.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Person_XML_FB_FB_PC.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Person_XML_FB_FB_Select...	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Real_Estate_Building_MD....	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Real_Estate_PC.xslt	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Real_Estate_TAB.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Real_Estate_XML_FB_FB.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Real_Estate_XML_FB_FB_...	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Real_Estate_XML_FB_FB_...	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Room_Object_MD.xslt	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Room_PC.xslt	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Room_Rooms_and_Doors_...	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Room_TAB.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Room_XML_FB_FB.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Room_XML_FB_FB_PC.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Room_XML_FB_FB_Select...	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Rooms_and_Doors_PC.xslt	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Rooms_and_Doors_XML_F...	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Rooms_and_Doors_XML_F...	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Rooms_and_Doors_XML_F...	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_State_Address_MD.xslt	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_State_PC.xslt	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_State_TAB.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_State_XML_FB_FB.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_State_XML_FB_FB_PC.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_State_XML_FB_FB_Select...	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Unit_PC.xslt	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Unit_XML_FB_FB.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Unit_XML_FB_FB_PC.xml	D:\workspace\fm4\web\WEB-INF\fm4\filter
fm_Unit_XML_FB_FB_Select...	D:\workspace\fm4\web\WEB-INF\fm4\filter
mainframeComponents.xslt	D:\workspace\fm4\web\WEB-INF\customi...
messages.xslt	D:\workspace\fm4\web\WEB-INF\customi...
PC_2_north_2.xslt	D:\workspace\fm4\web\WEB-INF\fm4\filter
PC4_east_4.xslt	D:\workspace\fm4\web\WEB-INF\fm4\filter
request.xml	D:\workspace\fm4\web\WEB-INF\fm4
request_Jeeres_Muster.xml	D:\workspace\fm4\web\WEB-INF\fm4

```
childpanel
  id = "tabGroup_ID_north"
  region = "north"
  border = "true"
  width = "450"
  height = "280"
  split = "true"
  ajaxPageLoad
    style = "ajax"
    request
      fm_Company_XML_FB_FB
  childpanel
    id = "childpanel_1"
    region = "center"
    border = "true"
    width = "500"
    height = "500"
    split = "true"
  childpanel
    id = "tabGroup_ID_west"
    region = "west"
    border = "true"
    width = "450"
    height = "280"
    split = "true"
    ajaxPageLoad
      style = "ajax"
      request
        fm_Company_XML_DIC_UPD
  childpanel
    id = "tabGroup_ID_center"
    region = "center"
    border = "true"
    width = "450"
    height = "280"
    split = "true"
    ajaxPageLoad
      style = "ajax"
      request
        fm_Company_XML_DIC_UPD
```

Fullpath:
Selector:
Selector1:

Browse through all of the generated xml, xsl/xslt-files and the code contained



2E/PLEX

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Different aspects of Tools4Plex

Main processes → Menu PlexXML → XMLMenu

The screenshot displays the XMLMenu application window. The interface includes a menu bar with options like 'File', 'User TEST', 'Menu MyDevMenu', 'Add Menu', 'Show Menu', 'MenuGroup FindBrowse', 'Add Request', 'Default Menu Structure', and 'Allow DragDrop'. Below the menu bar, there are two main panes. The left pane is a table with columns 'Index', 'Value', and 'Count'. The right pane is a 'Menu Treeview' showing a hierarchical structure of menu items under 'MyDevMenu'. The 'FindBrowse (FindBrowse) ID=19430' item is highlighted in the treeview. The table in the left pane contains the following data:

Index	Value	Count
1	fm_Address_XML_FB_FB	2
13	fm_Address_XML_FB_FB_PC	2
17	fm_Address_XML_FB_FB_Select	2
21	fm_Area_Type_XML_FB_FB	1
29	fm_Area_Type_XML_FB_FB_PC	1
33	fm_Area_Type_XML_FB_FB_Select	1
37	fm_Building_XML_FB_FB	1
45	fm_Building_XML_FB_FB_PC	1
49	fm_Building_XML_FB_FB_Select	1
53	fm_Company_XML_FB_FB	1
79	fm_Company_XML_FB_FB_PC	1
83	fm_Company_XML_FB_FB_Select	1
87	fm_Country_XML_FB_FB	1
95	fm_Country_XML_FB_FB_PC	1
99	fm_Country_XML_FB_FB_Select	1
103	fm_Door_XML_FB_FB	1
111	fm_Door_XML_FB_FB_PC	1
115	fm_Door_XML_FB_FB_Select	1
119	fm_Floor_XML_FB_FB	1
127	fm_Floor_XML_FB_FB_PC	1
131	fm_Floor_XML_FB_FB_Select	1
147	fm_Object_Type_XML_FB_FB	1
155	fm_Object_Type_XML_FB_FB_PC	1
159	fm_Object_Type_XML_FB_FB_Se...	1
135	fm_Object_XML_FB_FB	1
139	fm_Object_XML_FB_FB_PC	1
143	fm_Object_XML_FB_FB_Select	1

Create all the menus needed to test your functions...with one click.

When ready, drag & drop the menu items to their respective menus.

Different aspects of Tools4Plex

Main processes → Menu PlexXML → XMLFormat

XMLFormat-Builder

File

View http://localhost:8080/fm4/ Create Combobox Create Hyperlink Save Active Format Save Fields Save Group Action

Browser Fields

Drag a column here to group by this column.

ObjID	ObjName	ObjType	ObjTypeAsText	ObjFullName	IsObjModifiable	FidImplName	SeqRow	Fr
291055144	AddressID	6	Field	Field: fm4App/AddressID	<input type="checkbox"/>	AddressID	1000	1
291109024	PostCode	6	Field	Field: fm4App/PostCode	<input type="checkbox"/>	PostCode	1100	1
291099904	City	6	Field	Field: fm4App/City	<input type="checkbox"/>	City	1200	1

Drag a column here to group by this column.

FrmFunc	FrmForm	FrmVar	FrmFld	Transl	FrmFSet	FrmLov	SeqRow	F
fm4Web973079862	Master	XMLOutput	AddressID	AddressID	1 0		1000	1
fm4Web973079862	Master	XMLOutput	City	City	1 0		1200	0
fm4Web973079862	Master	XMLOutput	Comment	Comment	1 0		1600	0
fm4Web973079862	Master	XMLOutput	CountryCodeISO	CountryCode	10 0		2000	0
fm4Web973079862	Master	XMLOutput	CountryID	CountryID	10 0		1700	0
fm4Web973079862	Master	XMLOutput	CountryName	CountryName	10 0		1900	0
fm4Web973079862	Master	XMLOutput	Postbox	Postbox	1 0		1400	0
fm4Web973079862	Master	XMLOutput	Postbox_PostCode	Postbox_PostCode	1 0		1500	0

Drag a column here to group by this column.

FrmFunc	FrmForm	FrmTty	FrmTNb	Transl
fm4Web973079862	Master	S	1	fm_Address
fm4Web973079862	Master	S	10	fm_State

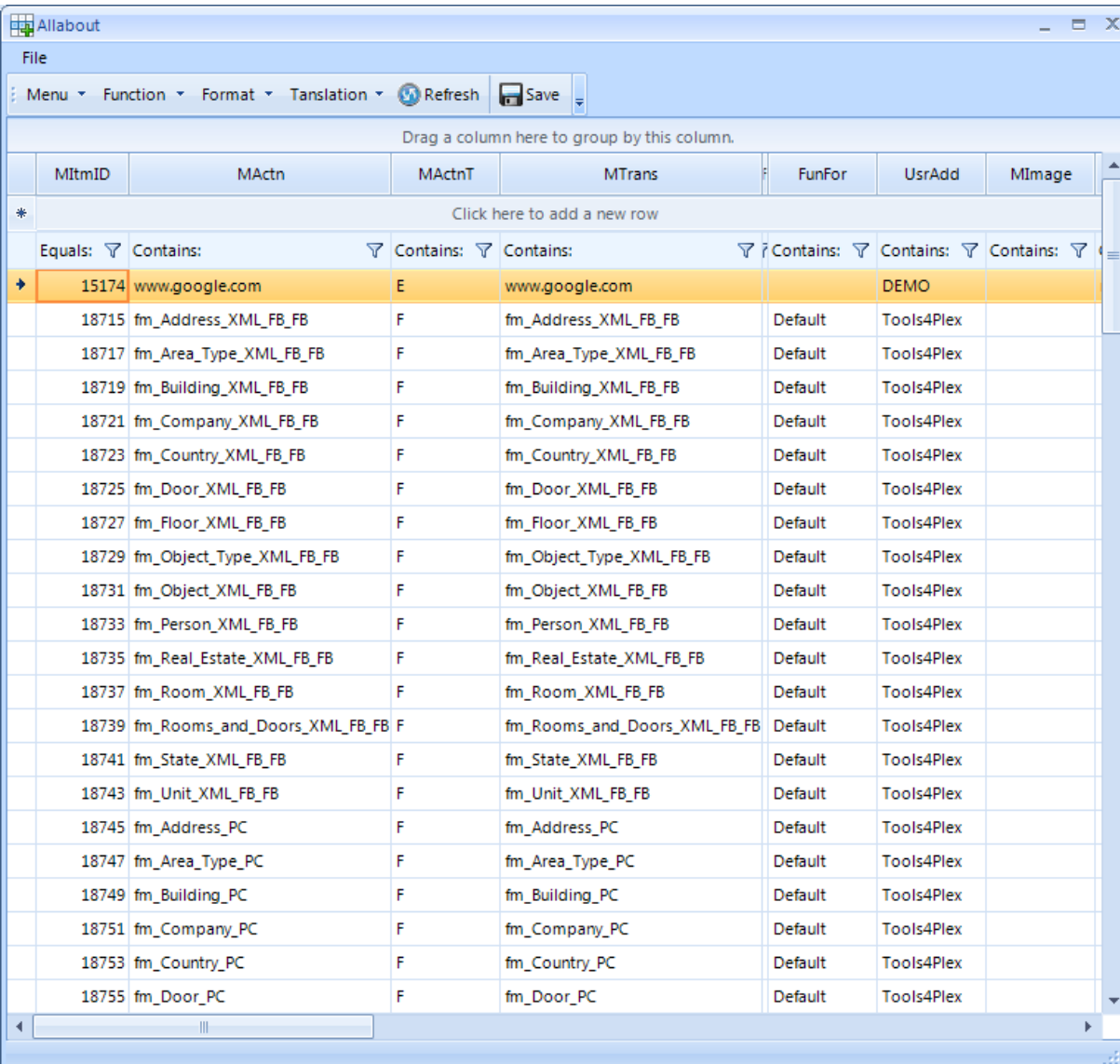
View on generated functions and formats.

Create combo boxes and/or the hyperlinks you want within the formats.



Different aspects of Tools4Plex

Main processes → Menu PlexXML → XMLAllabout



The screenshot shows the XMLAllabout application window. The title bar reads "Allabout". The menu bar includes "File", "Menu", "Function", "Format", "Translation", "Refresh", and "Save". Below the menu bar is a toolbar with a "Refresh" button and a "Save" button. The main area contains a table with the following columns: MItemID, MActn, MActnT, MTrans, FunFor, UsrAdd, and MImage. The table has a header row and a data row highlighted in yellow. The data row contains the following values: 15174, www.google.com, E, www.google.com, DEMO, and an empty cell. Below the data row are many other rows with similar structure, representing different PlexXML entries.

MItemID	MActn	MActnT	MTrans	FunFor	UsrAdd	MImage
*	Click here to add a new row					
↳ 15174	www.google.com	E	www.google.com		DEMO	
18715	fm_Address_XML_FB_FB	F	fm_Address_XML_FB_FB	Default	Tools4Plex	
18717	fm_Area_Type_XML_FB_FB	F	fm_Area_Type_XML_FB_FB	Default	Tools4Plex	
18719	fm_Building_XML_FB_FB	F	fm_Building_XML_FB_FB	Default	Tools4Plex	
18721	fm_Company_XML_FB_FB	F	fm_Company_XML_FB_FB	Default	Tools4Plex	
18723	fm_Country_XML_FB_FB	F	fm_Country_XML_FB_FB	Default	Tools4Plex	
18725	fm_Door_XML_FB_FB	F	fm_Door_XML_FB_FB	Default	Tools4Plex	
18727	fm_Floor_XML_FB_FB	F	fm_Floor_XML_FB_FB	Default	Tools4Plex	
18729	fm_Object_Type_XML_FB_FB	F	fm_Object_Type_XML_FB_FB	Default	Tools4Plex	
18731	fm_Object_XML_FB_FB	F	fm_Object_XML_FB_FB	Default	Tools4Plex	
18733	fm_Person_XML_FB_FB	F	fm_Person_XML_FB_FB	Default	Tools4Plex	
18735	fm_Real_Estate_XML_FB_FB	F	fm_Real_Estate_XML_FB_FB	Default	Tools4Plex	
18737	fm_Room_XML_FB_FB	F	fm_Room_XML_FB_FB	Default	Tools4Plex	
18739	fm_Rooms_and_Doors_XML_FB_FB	F	fm_Rooms_and_Doors_XML_FB_FB	Default	Tools4Plex	
18741	fm_State_XML_FB_FB	F	fm_State_XML_FB_FB	Default	Tools4Plex	
18743	fm_Unit_XML_FB_FB	F	fm_Unit_XML_FB_FB	Default	Tools4Plex	
18745	fm_Address_PC	F	fm_Address_PC	Default	Tools4Plex	
18747	fm_Area_Type_PC	F	fm_Area_Type_PC	Default	Tools4Plex	
18749	fm_Building_PC	F	fm_Building_PC	Default	Tools4Plex	
18751	fm_Company_PC	F	fm_Company_PC	Default	Tools4Plex	
18753	fm_Country_PC	F	fm_Country_PC	Default	Tools4Plex	
18755	fm_Door_PC	F	fm_Door_PC	Default	Tools4Plex	

Central view of PlexXML tables that define your menus, functions, formats and translations.

For example:
Here the menu tab is active, so the menu items created by **Tools4Plex** can be seen

About Tools4Plex...

- A productivity tool for CA Plex
- The story behind the tool
- What do we have right now
- *Where do we want to go*



About Tools4Plex...

Where do we want to go?

Continued integration of further presentation layers.

Who wants to be first?