



FoxInCloud

A-Z tutorial, Session 2

Requires FAA & FAS V2.0+

Session 2

Adapting your application

To better follow this session, we recommend you download and install both FoxInCloud Adaptation Assistant (FAA) and FoxInCloud Application Server (FAS) `version 2.0+` from <http://foxincloud.com/download.php>

Both licensed and trial versions of FoxInCloud Application Server install the application presented in this Session in this location:

`<path to VFP9>\Tools\AB\AW\Samples\Tastrade\`

To reproduce the steps presented in this session, please prepare the source files as follows:

- Erase the contents of `...\Tastrade\Sandbox\`
- Copy the contents of `...\Tastrade_Original\` into `...\Tastrade\Sandbox\`

You may also read adapted source code from `...\Tastrade\Adapted\`

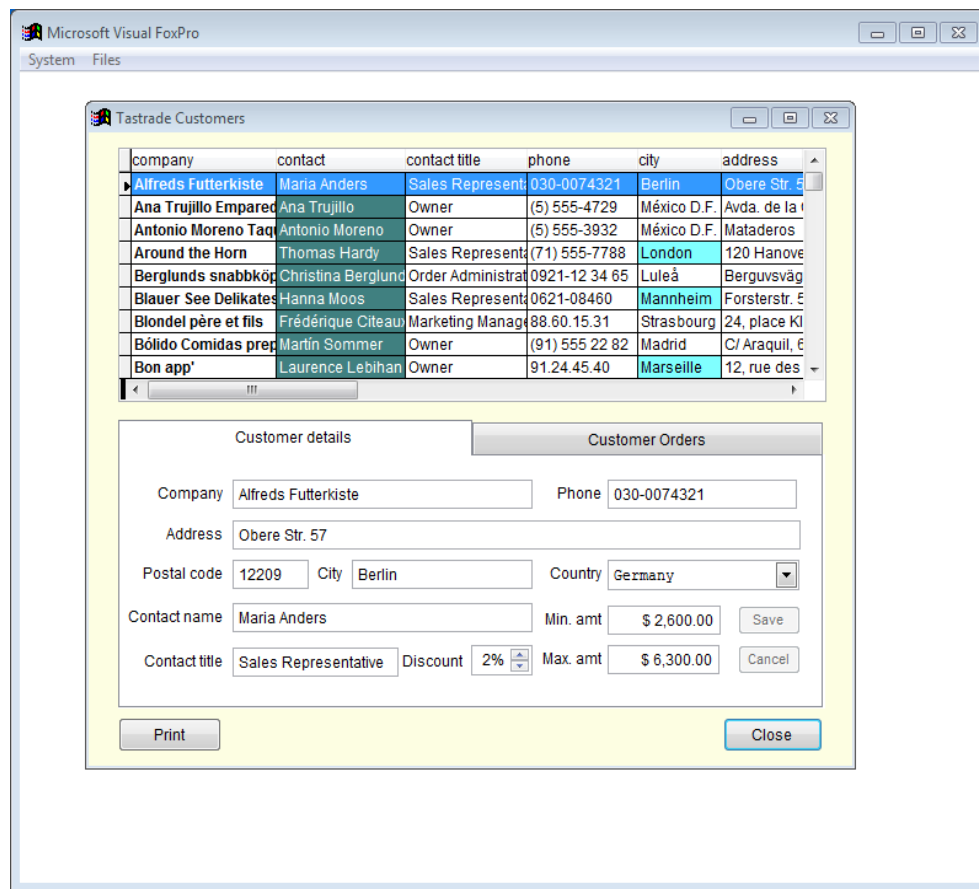
Adapting your application, Agenda



Episode	Subject	Slides
0	A simple business Application	5
1	Analyzing Application (FAA step 1)	8
2.1	Automated Adaptations (FAA step 2)	9
2.2	Manual Adaptations after FAA step 2	20
		42

Session 2, prologue

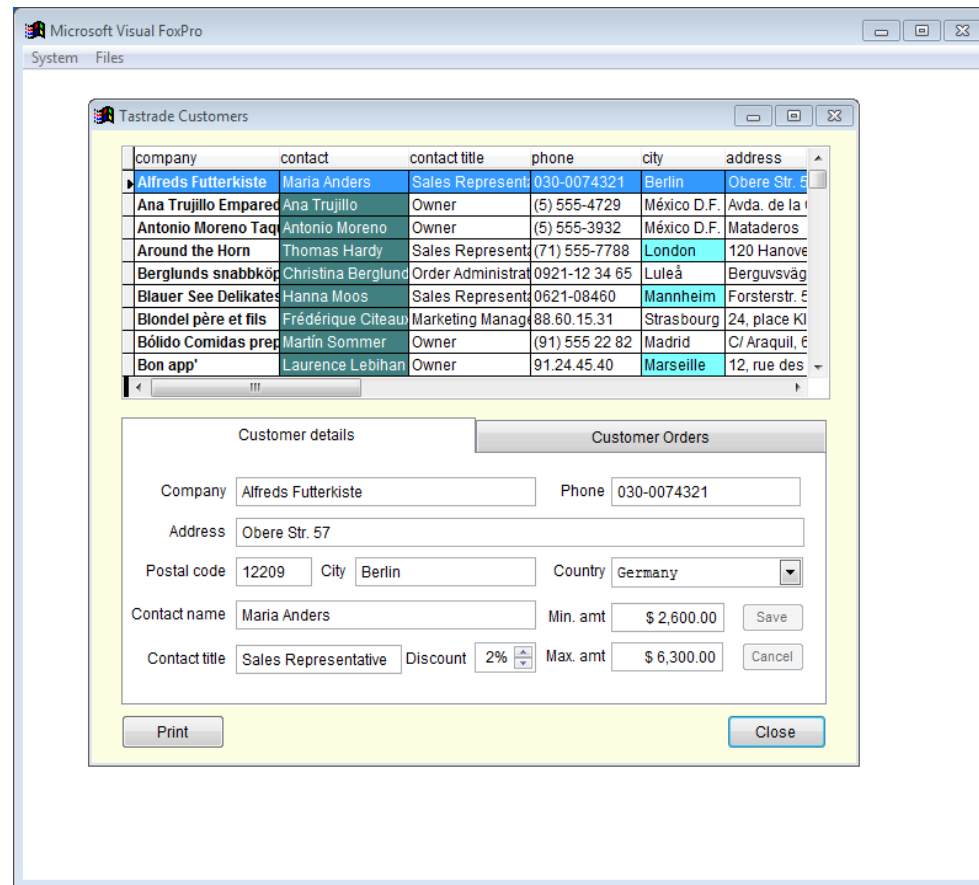
A simple business application





Sample Tastrade Application

Though simple, this application demos the most common VFP business app. features.





Double clicking orders grid opens order form

Orders grid is located on 'orders' page.

The screenshot shows a Microsoft Visual FoxPro window titled 'Tastrate Customers'. A dialog box titled 'Order # 703 for customer 'Alfreds Futterkiste' - original' is open. The form contains the following fields and controls:

- Employee: Andrew Fuller
- Date: 09/06/2010
- Ship to section:
 - Recipient name: Alfreds Futterkiste
 - Address: Obere Str. 57
 - City: Berlin, Zip: 12209, Country: Germany
- Discount: 7%
- Pay Term: 15 days, 1 month, 2 months
- Paid:
- Notes: (empty text area)
- Table with columns: product, unit price, quantity

product	unit price	quantity
Aniseed Syrup	\$ 10.00	10
Lakkalikööri	\$ 18.00	20

OK



Customer report

Clicking the forms's 'print' button...

Report Preview - Customer.frx

Customer Id: ALFKI Phone: 030 8074321 Fax: 030 8076545

Company Name: Alfreds Futterkiste
Contact Name: Maria Anders
Contact Title: Sales Representative
Address: Obere Str. 57
City: Berlin **Postal Code:** 12209 **Country:** Germany

<u>Order Id</u>	<u>Customer Id</u>	<u>Shipper Id</u>	<u>Order Number</u>	<u>Order Date</u>	<u>Deliver By</u>	<u>Ship To Name</u>
953	ALFKI	1	953	02/07/12	03/21/11	Alfred's Futterkiste
836	ALFKI	3	836	12/09/10	01/06/11	Alfred's Futterkiste
703	ALFKI	1	703	09/06/10	10/18/10	Alfred's Futterkiste
693	ALFKI	3	693	08/27/10	09/24/10	Alfred's Futterkiste
644	ALFKI	3	644	07/19/10	08/16/10	Alfred's Futterkiste
63	ALFKI	1	63	08/21/08	09/18/08	Alfred's Futterkiste



Viewing Source Code

You may
open
either

.?cx

or

.?cx.src

```
tastradefic.vcx.src
*****
*-- Class Library:  c:\program files\vp9\tools\ab\aw\samples\tastrade\_original\class\tastradefic
*****

*****
*-- Class:          tasfrm (c:\program files\vp9\tools\ab\aw\samples\tastrade\_original\class\tastr
*-- ParentClass:   form
*-- BaseClass:     form
*-- Time Stamp:    11/12/13 05:49:08 AM
*
DEFINE CLASS tasfrm AS form

    DoCreate = .T.
    Caption = "Form"
    BackColor = RGB(253,254,226)
    *-- XML Metadata for customizable properties
    _memberdata = ""
    Name = "tasfrm"

    ADD OBJECT cmdok AS commandbutton WITH ;
        Top = 204, ;
        Left = 324, ;
        Height = 27, ;
        Width = 35, ;
        Cancel = .T., ;
        Caption = "OK", ;
        Name = "cmdOK"

quit
modify comm ?
modifyv comm "C:\Program Files\VP9\Tools\AB\AW\Samples\Tastrade\Sandbox\Class\tastradef
```


Session 2, episode 1

Analyzing application (FAA step 1)

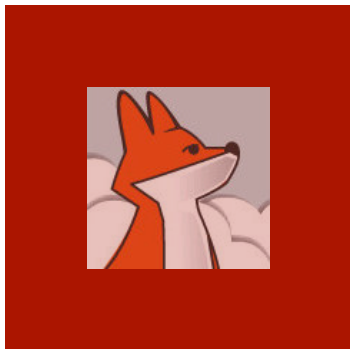
The screenshot displays the FoxInCloud Adaptation Assistant (FAA) version 2.00 beta3 in 'copy mode'. The main window shows a table of adaptations with columns for Object/Class, Base Class, Module, Type, and Adaptation. A yellow sticky note with the text 'What's new?' is placed over the first row of the table. Below the table, there are buttons for 'Review...' and 'Ignore...', along with status indicators for 'All (42)', 'Reviewed (0)', and 'Not reviewed (42)'. A code editor shows the following code snippet:

```
C:\...\Tastrade\Sandbox\Form\customers.scx!frmcustomer (tastradefic.vcx!tasfrm) > Refresh
LOCAL oCusID, lnRecno
oCusID = Evaluate(this.grdCustomer.RecordSource + '.customer_ID') && v_customer & v_orders
...
FoxInCloud Adaptation Assistant will condition method execution by:
IF NOT (Type('thisForm.wlPropsRestore') == 'L' AND thisForm.wlPropsRestore)
<existing code>
ENDIF
```

At the bottom, a summary box provides the following statistics:

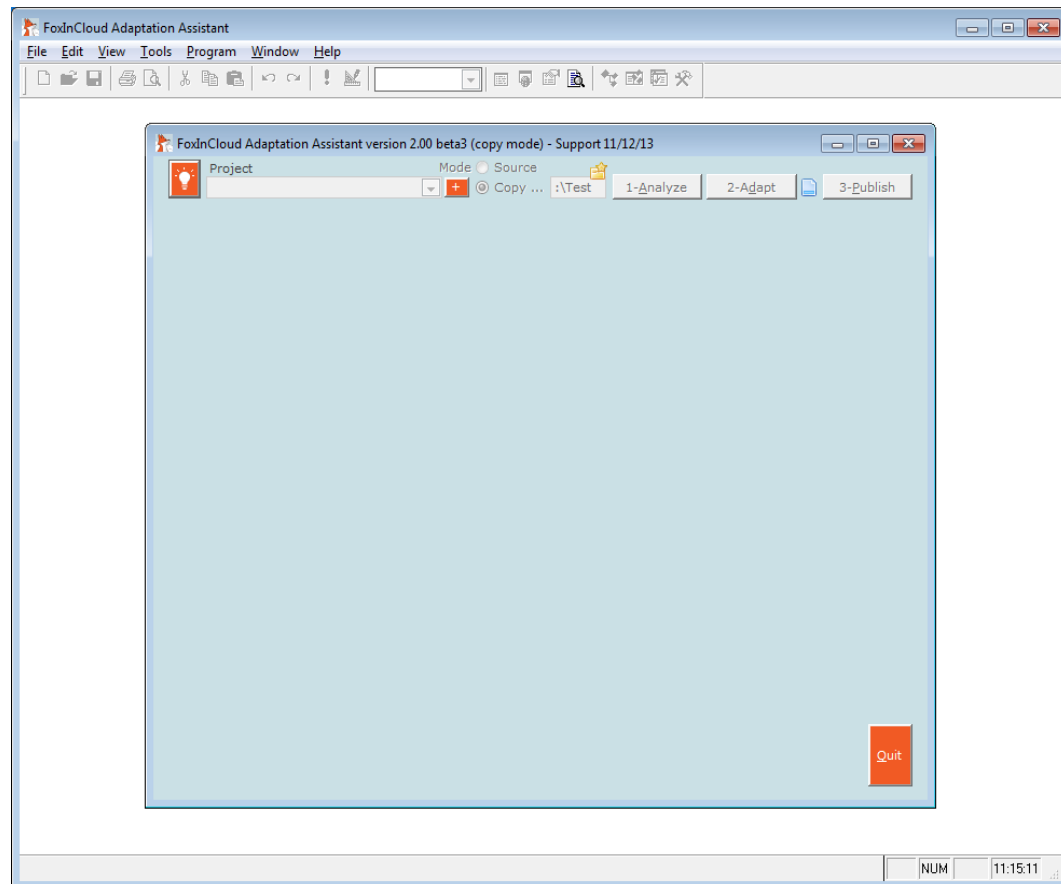
6 Files	195 Modules	Manual adaptations (%) 13.28 % Estimated time 0.6 days
165 Classes	128 Instructions	
4 Forms	17 Manual adaptations	

The status bar at the bottom right shows 'NUM' and the time '11:33:23'.



Open FoxInCloud Adaptation Assistant (FAA)

FAA opens in Copy mode by default

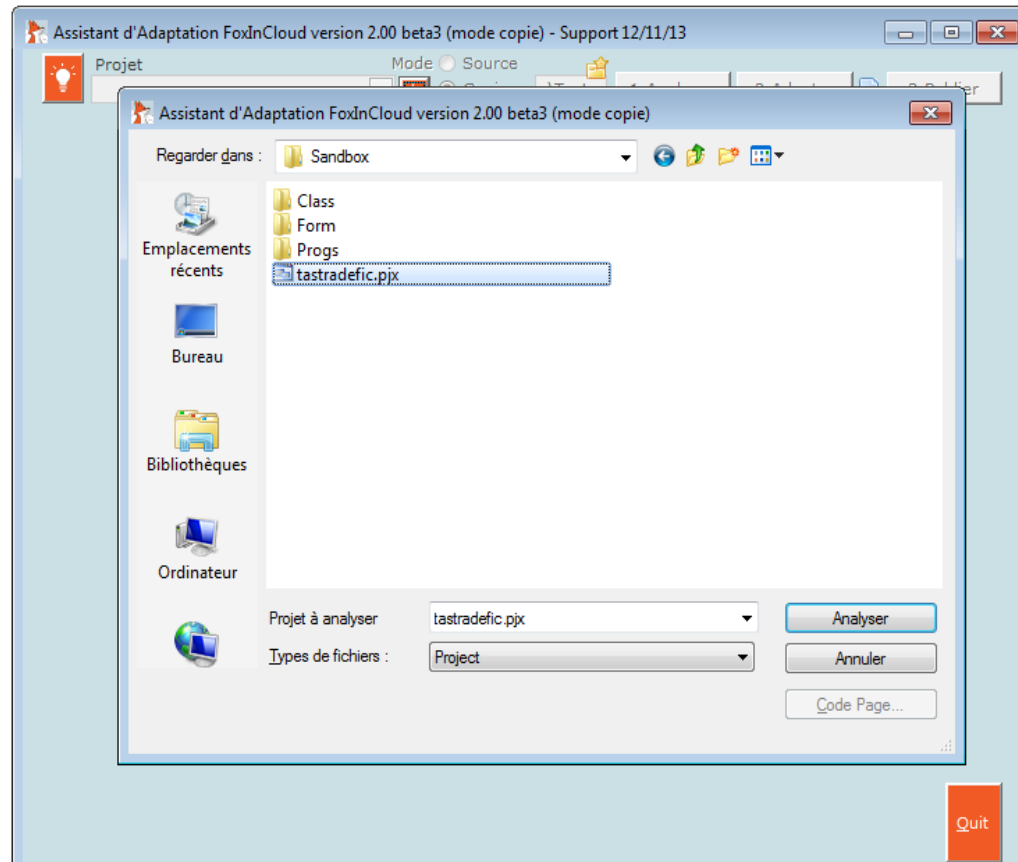




Pick the sample project in Sandbox

Samples
\\tastrade
\\Sandbox\ is
where you
can do your
tests.

Please keep
Samples
\\tastrade
_Original\
unchanged

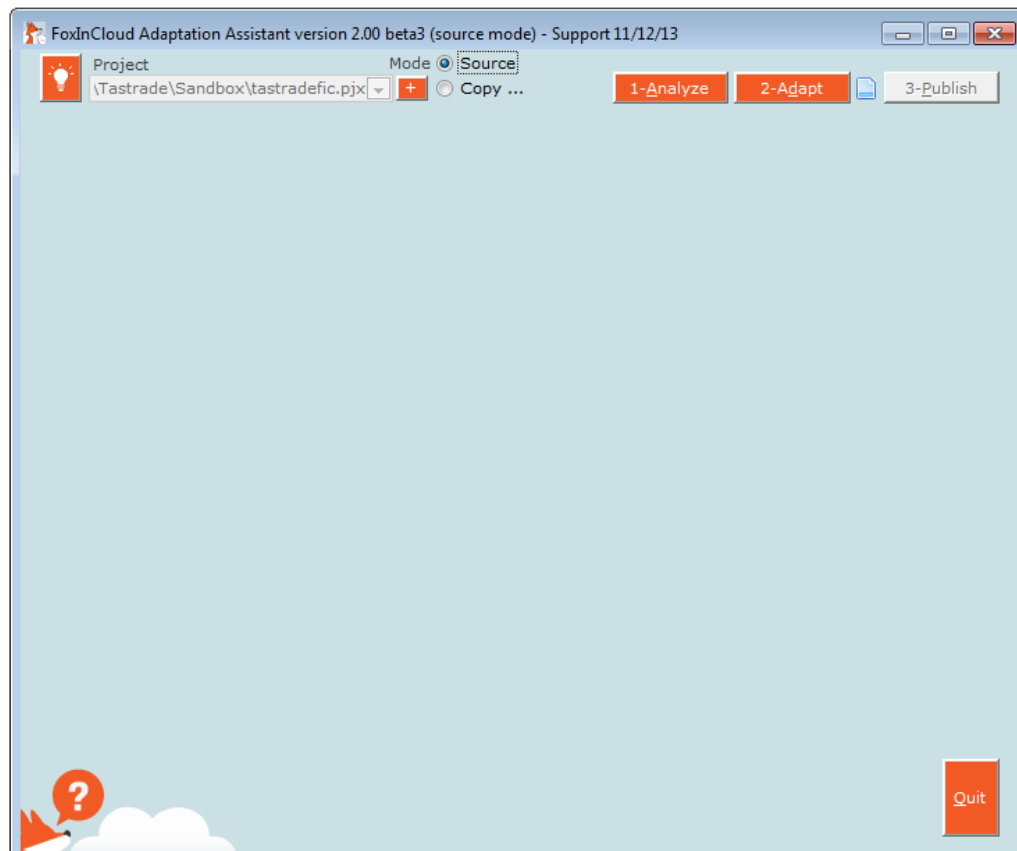




Switch to source mode

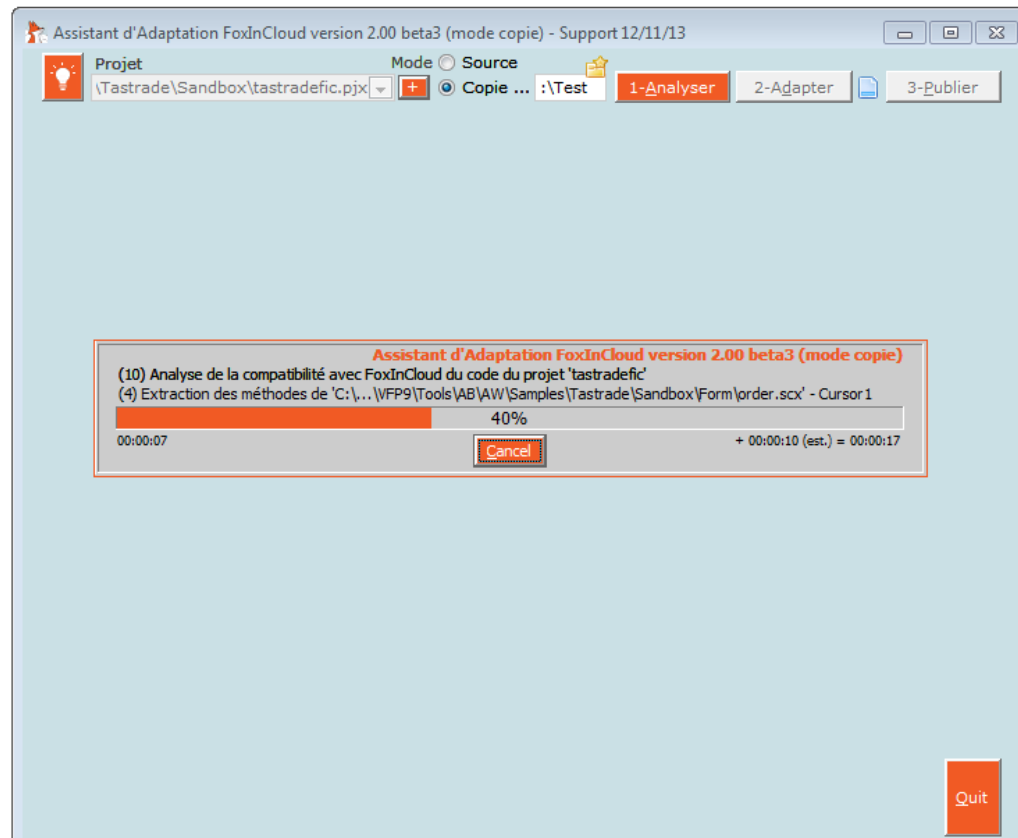
As we are working in a sandbox, we can go straight to source mode.

For a real application, running copy mode first is highly recommended





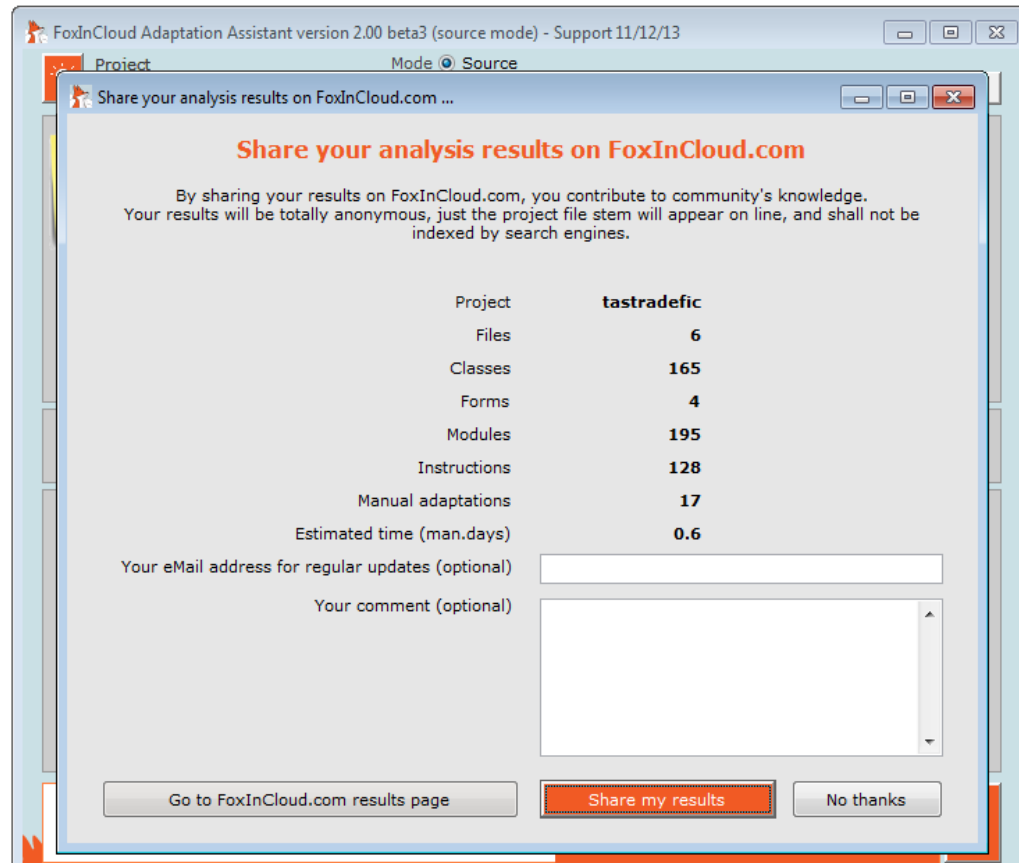
Analysing ...





Sharing analysis results

Sharing your results not only unlocks the automated adaptation features, it helps FoxInCloud know the current adaptation issues





Browsing results

For details on how to use the FAA interface, please browse foxincloud.com/how-to.php

What's new?

Object/Class	Base Class	Module	Type	Adaptation
frmcustomer	Form	Refresh	Automated adaptation	Refresh Method
frmcustomer	Form	Refresh	Manual adaptation after step	Query() to be
frmcustomer.cmdok	Commandbutton	Refresh	Automated adaptation	Refresh Method
frmcustomer.grdCustomer	Grid	AfterRowColChange	Manual adaptation after step	Event code mus
frmcustomer.pgf	Pageframe	pagDetails.Init	Manual adaptation after step	BindEvent(): ad
frmcustomer.pgf	Pageframe	pagDetails.Init	Manual adaptation after step	BindEvent(): ad
frmcustomer.pgf	Pageframe	pagDetails.Init	Manual adaptation after step	BindEvent(): ad

Estimated adaptation time: 0 minutes

```
C:\...\Tastrade\Sandbox\Form\customers.scx!frmcustomer (tastradefic.vcx!tasfrm) > Refresh
LOCAL cCusID, lnRecno
cCusID = Evaluate(this.grdCustomer.RecordSource + '.customer_ID') && v_customer & v_orders
view.refresh()

FoxInCloud Adaptation Assistant will condition method execution by:
IF NOT (Type('thisForm.wlPropsRestore') == 'L' AND thisForm.wlPropsRestore)
<existing code>
ENDIF
```

6 Files 195 Modules
165 Classes 128 Instructions
4 Forms 17 Manual adaptations

Manual adaptations (%) 13.28 %
Estimated time 0.6 days

Quit



Double clicking a grid line opens source code

The screenshot displays a software development environment with two main windows. The top window, titled 'Form Designer - customers.scx', shows a grid with columns labeled 'company', 'contact', 'contact title', 'phone', 'city', and 'address'. The first row contains the text 'abi' in each of these columns. The second row is highlighted in green. The bottom window, titled 'pagDetails.Init', shows the source code for the 'Init' procedure. The code is as follows:

```
LOCAL loCnt1
FOR EACH loCnt1 IN this.Controls FOXOBJECT
    IF InList(m.loCnt1.BaseClass, 'Textbox', 'Combobox', 'Spinner')
        * If any of the contained control's value is modified, refresh action buttons
        BindEvent(m.loCnt1, 'LostFocus', m.this.cmdCancel, 'Refresh')
        BindEvent(m.loCnt1, 'LostFocus', m.this.cmdSave, 'Refresh')
        BindEvent(m.loCnt1, 'LostFocus', m.thisForm.cmdOK, 'Refresh')

        * If any of the contained control is hovered, highlight it
        BindEvent(m.loCnt1, 'MouseEnter', m.thisForm, 'cntlMouseEnter')
        BindEvent(m.loCnt1, 'MouseLeave', m.thisForm, 'cntlMouseLeave')
    ENDIF

    IF InList(m.loCnt1.BaseClass, 'Combobox')
        BindEvent(m.loCnt1, 'Valid', m.this.cmdCancel, 'Refresh')
        BindEvent(m.loCnt1, 'Valid', m.this.cmdSave, 'Refresh')
        BindEvent(m.loCnt1, 'Valid', m.thisForm.cmdOK, 'Refresh')
```


Session 2, episode 2.1

Automated adaptation (FAA step 2)



Once adapted with
FoxInCloud,
your application can run
on the desktop as usual,
and on the Web within
FoxInCloud Application
server

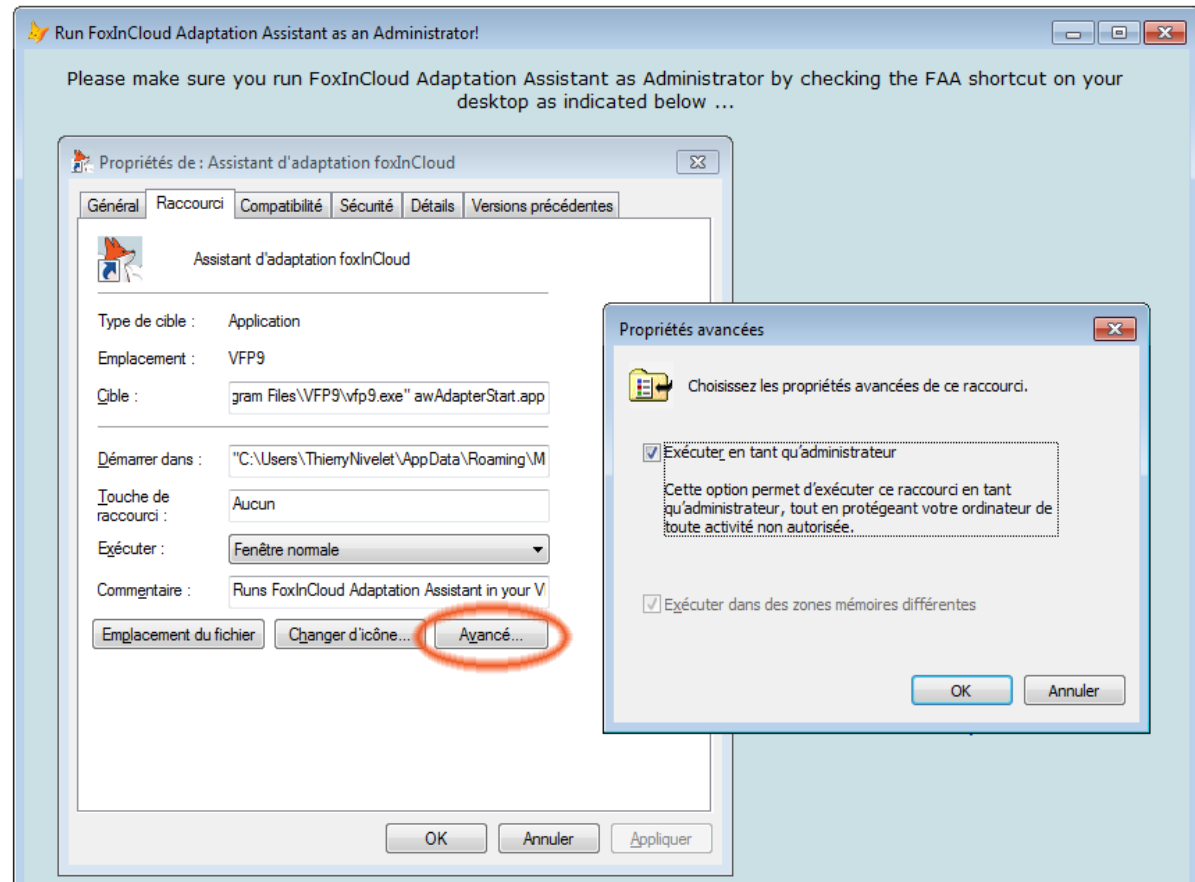
The screenshot shows the FoxInCloud Adaptation Assistant interface. The main window displays a progress bar at 31% completion. A 'Class Designer' window is open, showing a class named 'tfs.vcx' with various methods and properties. A 'Properties - Desktop' window is also visible, showing a list of properties for the 'ActiveForm' control, such as 'AllowOutput', 'AlwaysOnTop', and 'AutoCenter'. At the bottom, a summary table provides statistics on the adaptation process.

Category	Count	Count	Percentage	Estimated Time
Files	6	192	Modules	12.50
Classes	164	123	Instructions	0.5 days
Forms	4	16	Manual adaptations	



Let's start adaptation

As FAA needs write files into the program files directory, when using Windows >= Vista, you need to run FAA as an admin.

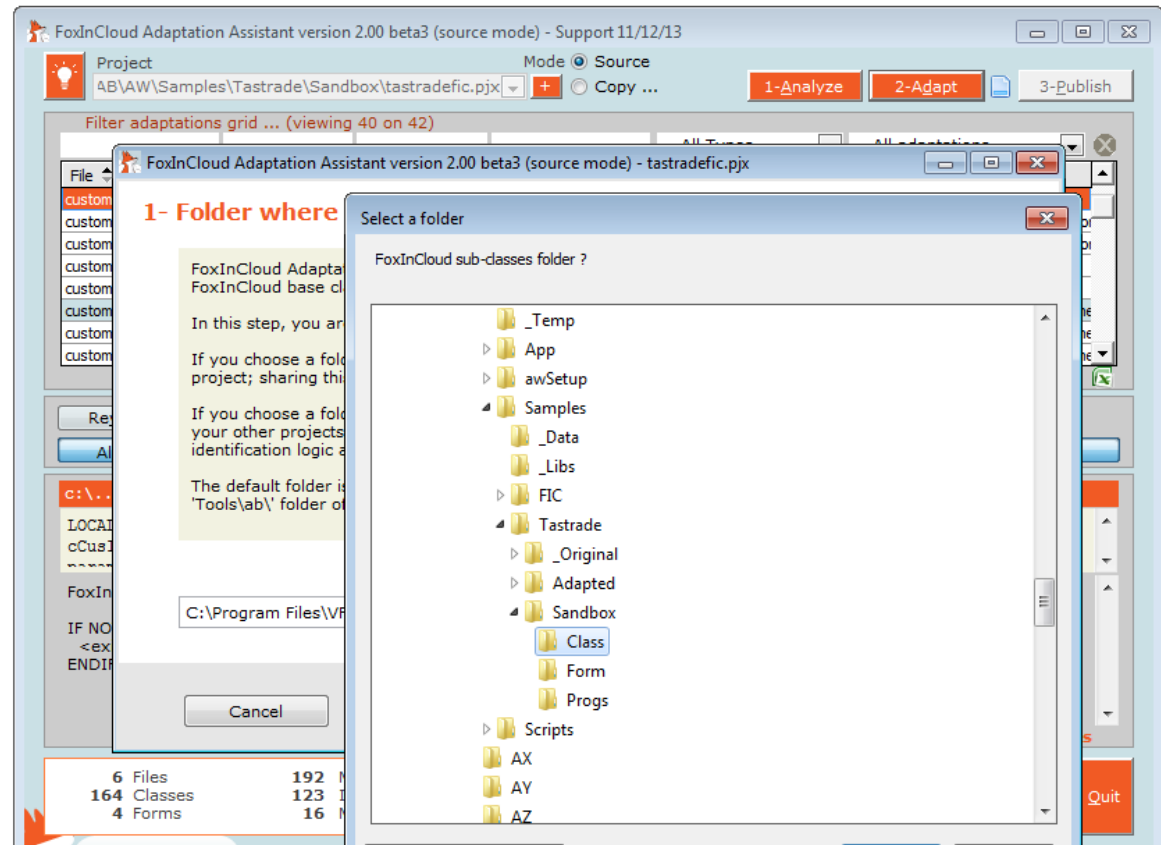




1- Folder where you want to store your sub-classes of FiC

Folder where FAA stores sub-classes of FiC 'aw' base classes.

It can be either within your project dir. or shared across projects.



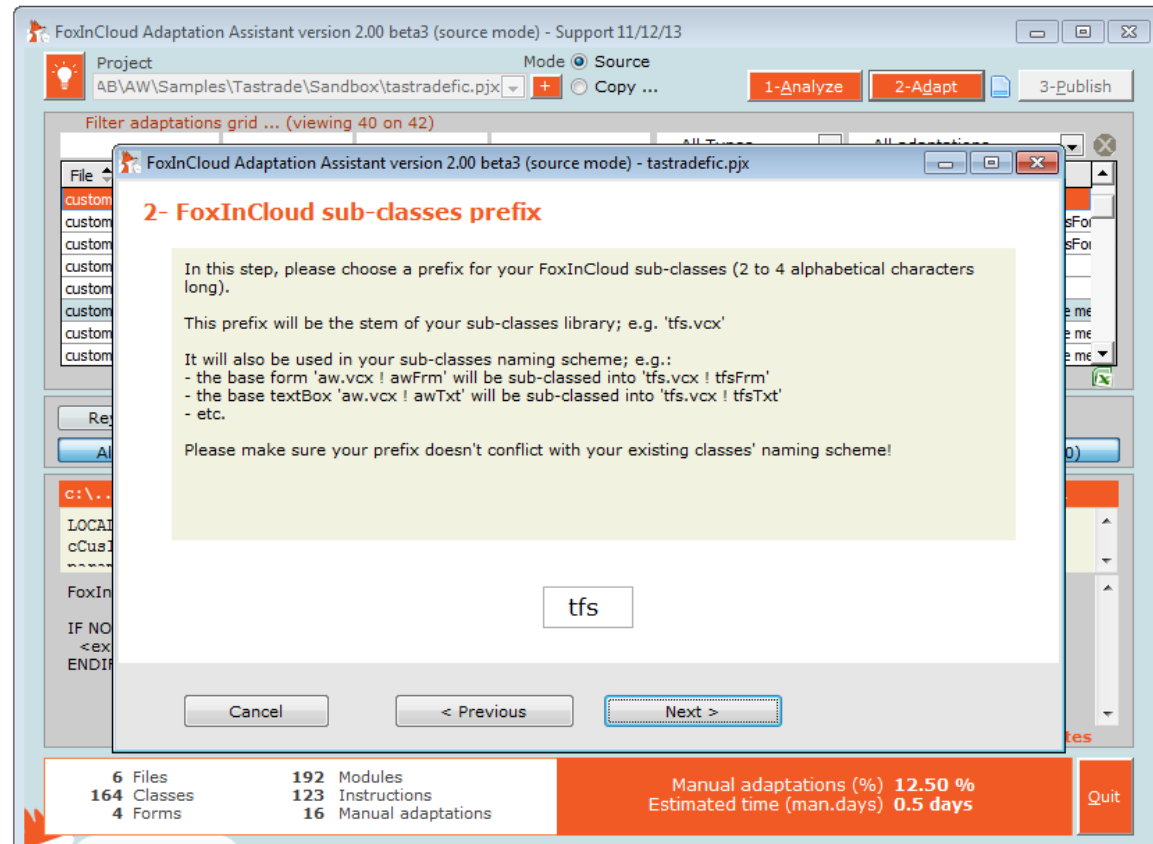


2- FiC sub-classes prefix

Your vcx and contained classes will share a common prefix.

This prefix is used throughout your web app.

(*'tfs'* stands for Tastrade FiC Sandbox)





Adapting your app ...

Automated Adaptations:

1- replace any native VFP class by your set of sub-classes

2- make your code web-compatible

Estimated adaptation	
6 Files	192 Modules
164 Classes	123 Instructions
4 Forms	16 Manual adaptations

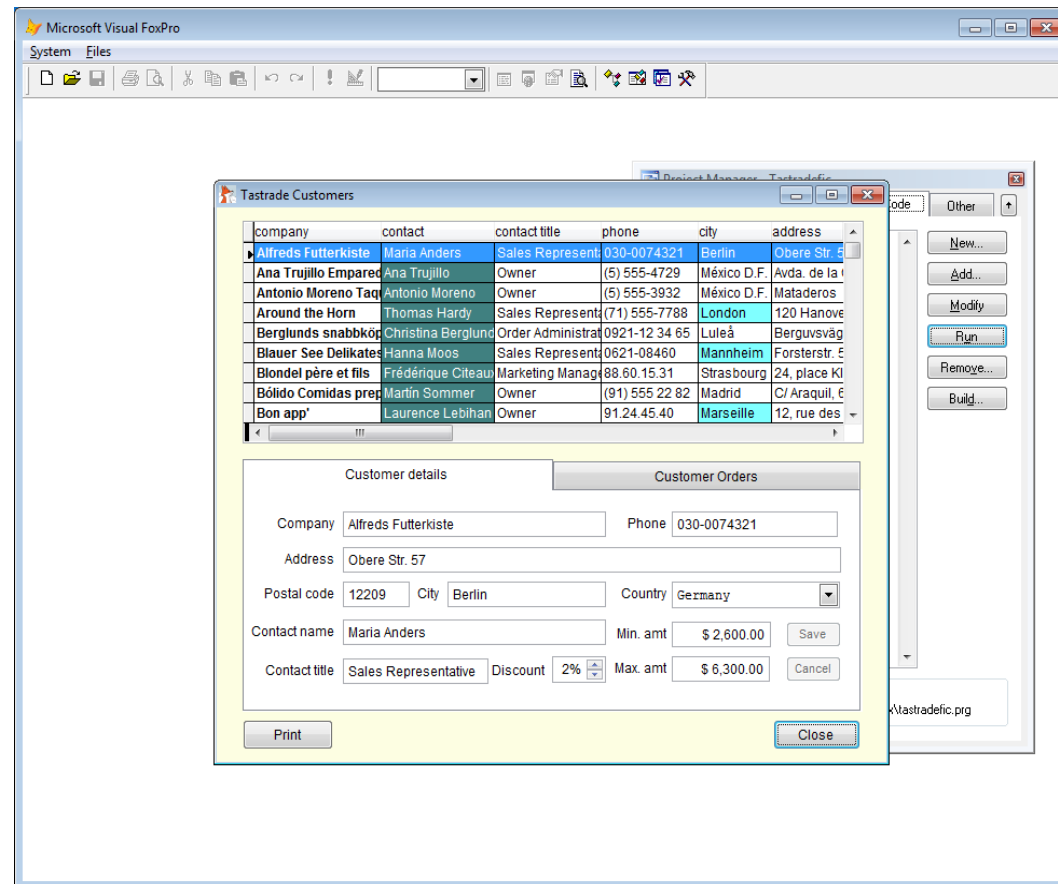
Manual adaptations (%) 12.50
Estimated time (man.days) 0.5 da



Testing the adapted app...

Once adapted with
FoxInCloud,
your application can run on
the desktop as usual,
and on the Web within
FoxInCloud Application Server

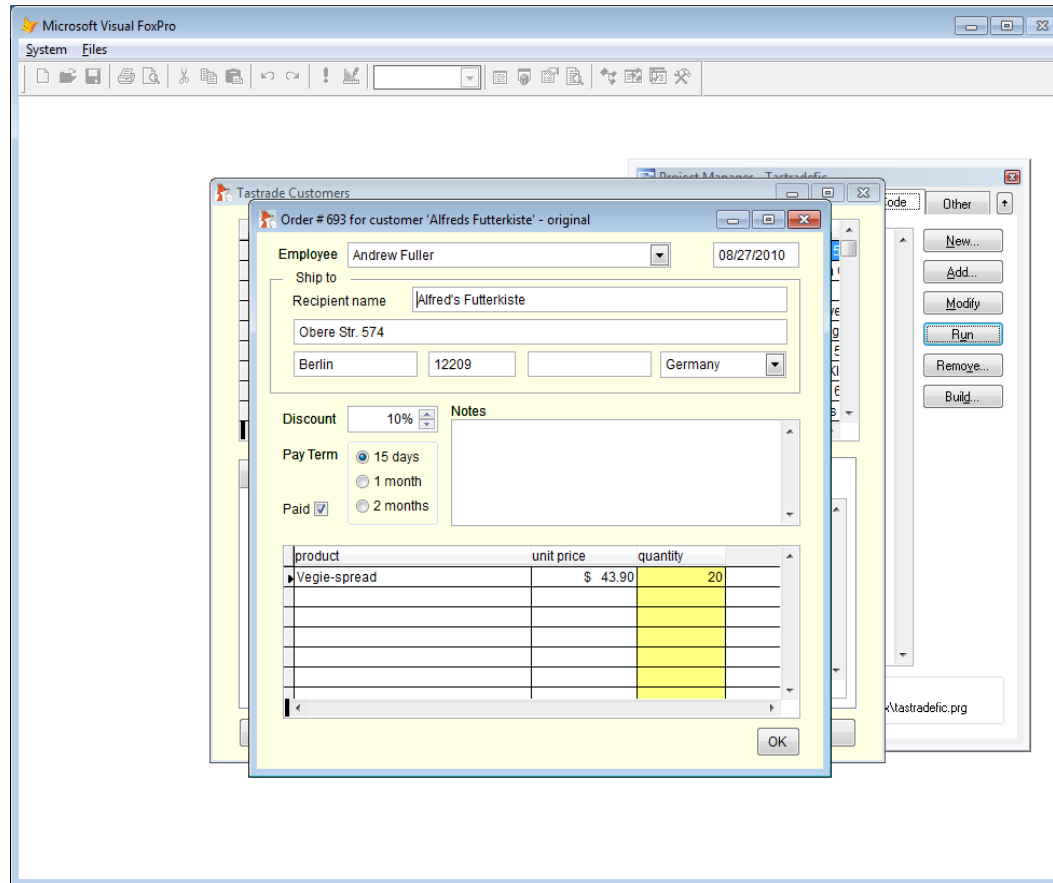
All features
of your
original
app. should
work
exactly the
same with
the
adapted
source
code





Testing the adapted app ...

You check that modal child forms and value returned to parent still work OK





Comparing source code before / after automated adaptations

Using a source code diff utility such as Win Merge helps compare code before/ after adaptation (see *.src.?cx)

```
WinMerge - [customers.scs.src - customers.scs.src]
Fichier  Edition  Affichage  Fusionner  Outils  Plugiciels  Fenêtre  Aide

Barre de localisation
C:\Program Files\VF9\Tools\AB\AW\Samples\Tasttrade_Original\Form\customers.scs.src
C:\Program Files\VF9\Tools\AB\AW\Samples\Tasttrade_Sandbox\Form\customers.scs.src

ADD OBJECT frmcustomer.grdcustomer.grcphone
Caption = "phone", ;
Name = "Header1"

ADD OBJECT frmcustomer.grdcustomer.grcphone
BorderStyle = 0, ;
Margin = 0, ;
ForeColor = RGB(0,0,0), ;
BackColor = RGB(255,255,255), ;
Name = "Text1"

ADD OBJECT pgf AS pageframe WITH ;
ErasePage = .T., ;
PageCount = 2, ;
Top = 226, ;
Left = 24, ;
Width = 576, ;
Height = 228, ;
Name = "pgf". ;

Lg:183 Col:1/72 Car:1/69 EOL:CRLF

ADD OBJECT frmcustomer.grdcustomer.grcphone.header1 AS
Caption = "phone", ;
Name = "Header1"

ADD OBJECT frmcustomer.grdcustomer.grcphone.text1 AS t
BorderStyle = 0, ;
Margin = 0, ;
ForeColor = RGB(0,0,0), ;
BackColor = RGB(255,255,255), ;
Name = "Text1"

ADD OBJECT pgf AS tfspgf WITH ;
ErasePage = .T., ;
PageCount = 2, ;
Top = 226, ;
Left = 24, ;
Width = 576, ;
Height = 228, ;
Name = "pgf". ;

Lg:188 Col:1/71 Car:1/68 EOL:CRLF

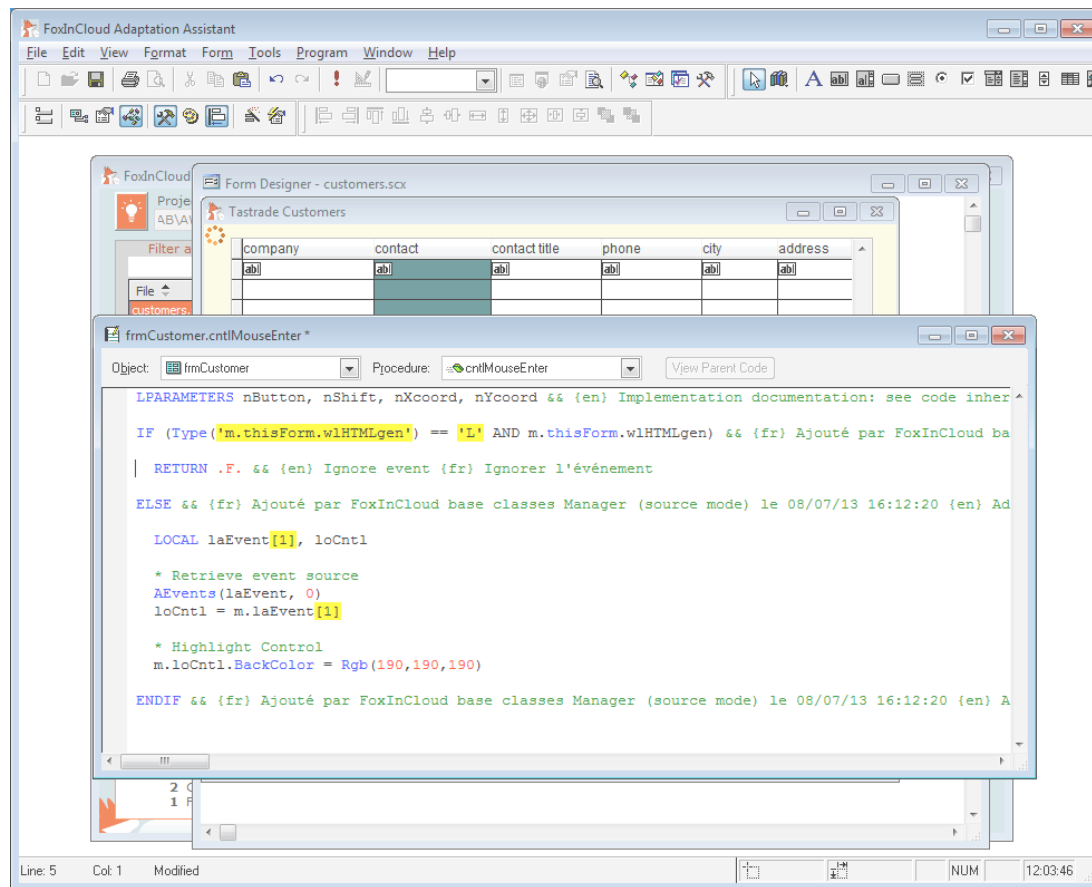
ADD OBJECT frmcustomer.grdcustomer.grcphone.text1 AS textbox WITH ;

ADD OBJECT frmcustomer.grdcustomer.grcphone.text1 AS tfstxt WITH ;

Détail des différences
Prêt
Différence 14 de 86
NUM
```

Session 2, episode 2.2

Manual adaptations after FAA step 2





(A) Moving modal response code to a call-back method

Double-clicking an orders grid row opens the 'order' child form.

Parent form expects a Boolean response from 'order' child form.

Project: AB\AW\Samples\Tastrade\Sandbox\tastradefic.pjx | Mode: Source | 1-Analyze | 2-Adapt | 3-Publish

File	Object/Class	Base Class	Module	Type	Adaptation
customers.scx	frmcustomer.pgf.pi	Grid	DbClick		Manual adaptation after step: Modal Dialog with user response, m

```
grdOrders.DbClick*
Object: grdOrders | Procedure: DbClick | View Parent Code

*-FIC- DO FORM order TO llResult && runs a modal form returning result
external form order
llResult = m.thisform.wForm('order.scx', .T.)
IF m.llResult

    llResult = TableUpdate(0, .T., 'v_orders')
    if not m.llResult
        TableRevert(.T., 'v_orders') && error handling could be more sophisticated ...
    endif

*-FIC- Replaced by FoxInCloud Adaptation Assistant version 2.00 beta3 (source mo
*-FIC- MessageBox(Textmerge([Order # <<Alltrim(v_orders.Order_number)>> was save
*-FIC- error')>>))) && simple message box without return
```

1 Files | 1 Modules | Manual adaptations (%) 0.78 %
1 Classes | 12 Instructions



(A) Moving modal response code to a call-back method...

... if child form returns .T. user has modified current order; update base table and feedback success to user.

```
external form order
llResult = m.thisform.wForm('order.scx', .T.)
IF m.llResult
    llResult = TableUpdate(0, .T., 'v orders')
    if not m.llResult
        TableRevert(.T., 'v orders') && error handling could be more sophisticated ...
    endif
    *-FIC- Replaced by FoxInCloud Adaptation Assistant version 2.00 beta3 (source mode)
    *-FIC- MessageBox(Textmerge([Order # <<Alltrim(v_orders.Order number)>> was saved
    *-FIC- error')>>)) && simple message box without return
    thisform.wMessageBox(' ', Textmerge([Order # <<Alltrim(v_orders.Order number)>> v
    thisform.Refresh
ENDIF
ENDIF
```



(A) Moving modal response code to a call-back method...

1/ Set
.wForm()
second
parameter
as the
name of the
callback
method
where
response
code will
execute.
(relative to this
object or
absolute to the
form)

The screenshot shows the FoxInCloud Adaptation Assistant interface. At the top, it displays the project name 'AB\AW\Samples\Tastrade\Sandbox\tastradefic.pjx' and the mode 'Source'. Below this is a table titled 'Filter adaptations grid ... (viewing 1 on 25)'. The table has columns for File, Object/Class, Base Class, Module, Type, and Adaptation. The first row is highlighted in orange and contains the following data:

File	Object/Class	Base Class	Module	Type	Adaptation
customers.scx	frmcustomer.pgfc	Grid	DbfClick	Manual adaptation after step: Modal Dialog with user response, m	

Below the table, there is a window titled 'grdOrders.DbfClick*' showing the code for the 'DbfClick' procedure. The code is as follows:

```
external form order
llResult = m.thisform.wForm('order.scx', 'wFormCallBack') && .T. replaced by 'wFormCallBack'
IF m.llResult

    llResult = TableUpdate(0, .T., 'v_orders')
    if not m.llResult
        TableRevert(.T., 'v_orders') && error handling could be more sophisticated ...
    endif

    *-FIC- Replaced by FoxInCloud Adaptation Assistant version 2.00 beta3 (source mode) on 11/12/13
    *-FIC- MessageBox(Textmerge([Order # <<Alltrim(v_orders.Order_number)>> was saved <<Iif(m.llRes
    *-FIC- error')>>])) && simple message box without return

    thisform.wMessageBox(' ', Textmerge([Order # <<Alltrim(v_orders.Order_number)>> was saved <<Iif(

    thisform.Refresh
ENDIF
ENDIF
```



(A) Moving modal response code to a call-back method...

2/ cut the response code and paste into the target call-back method.

3/ Give the parameter the same name as the variable in source method.

```
grdOrders.Db1Click
Object:  grdOrders      Procedure:  Db1Click      View Parent Code

*-FIC- Replaced by FoxInCloud Adaptation Assistant version 2.00 beta3 (source mode) on 11/12/13 11:53:20
*-FIC- DO FORM order TO llResult && runs a modal form returning result
external form order
llResult = m.thisform.wForm('order.scx', 'wFormCallBack') && , .T. replaced by 'wFormCallBack'

&& call-back code moved to this.wFormCallBack()

ENDIF

ENDIF && Added by FoxInCloud Adaptation Assistant version 2.00 beta3 (source mode) on 11/12/13 11:53:20

grdOrders.wFormCallBack
Object:  grdOrders      Procedure:  wFormCallBack  View Parent Code

LPARAMETERS llResult && @ {en} Returned from child form

&& call-back code moved from this.Db1Click()
IF m.llResult

    llResult = TableUpdate(0, .T., 'v_orders')
    if not m.llResult
        TableRevert(.T., 'v_orders') && error handling could be more sophisticated ...
    endif

    *-FIC- Replaced by FoxInCloud Adaptation Assistant version 2.00 beta3 (source mode) on 11/12/13 11:53:20
    *-FIC- MessageBox(Textmerge([Order # <<Alltrim(v_orders.Order_number)>> was saved <<Iif(m.llResult, 'succes
    *-FIC- error')>>])) && simple message box without return
    thisform.wMessageBox('!', Textmerge([Order # <<Alltrim(v_orders.Order_number)>> was saved <<Iif(m.llResult,
    thisform.Refresh
```



(B) Adapting delegate event methods

While FAA auto adapts native events, you need to adapt manually methods that are event delegates.

Project: AB\AW\Samples\Tastrade\Sandbox\tastradefic.pjx | Mode: Source | Copy ... | 1-Analyze | 2-Adapt | 3-Publish

Filter adaptations grid ... (viewing 10 on 25)

File	Object/Class	Base Class	Module	Type	Adaptation
customers.scx	frmcustomer.pgf	Pageframe	pagDetails.Init	Manual adaptation after step	BindEvent(): adapt the delegate me
customers.scx	frmcustomer.pgf	Pageframe	pagDetails.Init	Manual adaptation after step	BindEvent(): adapt the delegate me
customers.scx	frmcustomer.pgf	Pageframe	pagDetails.Init	Manual adaptation after step	BindEvent(): adapt the delegate me
customers.scx	frmcustomer.pgf	Pageframe	pagDetails.Init	Manual adaptation after step	BindEvent(): adapt the delegate me
customers.scx	frmcustomer.pgf	Pageframe	pagDetails.Init	Manual adaptation after step	BindEvent(): adapt the delegate me
customers.scx	frmcustomer.pgf	Pageframe	pagDetails.Init	Manual adaptation after step	BindEvent(): adapt the delegate me
customers.scx	frmcustomer.pgf	Pageframe	pagDetails.Init	Manual adaptation after step	BindEvent(): adapt the delegate me

Reviewed on 11/12/13 11:47:13 | Clear | Ignore... | All (10) | Reviewed (1) | Not reviewed (9) | All (10) | Ignored (0) | Not ignored (10)

```
c:\...\tastrade\sandbox\form\customers.scx!frmcustomer.pgf (tfs.vcx!tfspgf) > pagDetails.Init (line 9)
BindEvent(m.loCnt1, 'LostFocus', m.this.cmdCancel, 'Refresh', 1) && manual adaptation: , 1 because
m.loCnt1.LostFocus() is not implemented
```

If this instruction delegates a user event to another method (delegate), you must adapt the delegate method as if it was the source event method itself.

To achieve that follow these steps:
1/ open the event code snippet of source event, click on 'see parent code', select the FoxInCloud aw??? class at bottom of list
2/ Copy and paste the inherited code into the delegate code snippet, before original code
3/ cut and paste original code inside the main ELSE block of inherited code
4/ follow the implementation documentation from inherited code

Estimated adaptation time: 10 minutes

2 Files | 2 Modules | Manual adaptations (%) 7.81 %
2 Classes | 25 Instructions | Estimated time (man.days) 0.2 days
1 Forms | 10 Manual adaptations | Quit



(B) Adapting delegate event methods...

During HTML generation, FAS implements JS events based on the value returned by VFP event methods.

Adapt delegate method as if it was the source event.

The screenshot shows the Visual FoxPro IDE. In the background, the Form Designer window displays a table with the following data:

company	contact	contact title	phone	city	address
abi	abi	abi	abi	abi	abi

In the foreground, the code editor shows the implementation of the `cntlMouseEnter` event method for `frmCustomer`:

```
LPARAMETERS nButton, nShift, nXcoord, nYcoord && {en} Implementation documentation: see code inher
IF (Type('m.thisForm.wlHTMLgen') == 'L' AND m.thisForm.wlHTMLgen) && {fr} Ajouté par FoxInCloud ba
| RETURN .F. && {en} Ignore event {fr} Ignorer l'événement
ELSE && {fr} Ajouté par FoxInCloud base classes Manager (source mode) le 08/07/13 16:12:20 {en} Ad
LOCAL laEvent[1], loCntl
* Retrieve event source
AEvents(laEvent, 0)
loCntl = m.laEvent[1]
* Highlight Control
m.loCntl.BackColor = Rgb(190,190,190)
ENDIF && {fr} Ajouté par FoxInCloud base classes Manager (source mode) le 08/07/13 16:12:20 {en} A
```




(C) Checking .RowSource assignments in code

For any combobox or listbox object or class, make sure your code (re)assigns .RowSourceType just before assigning a non-empty value to .RowSource

Project: AB\AW\Samples\Tastrade\Sandbox\tastradefic.pjx | Mode: Source | Copy ... | 1-Analyze | 2-Adapt | 3-Publish

Filter adaptations grid ... (viewing 3 on 21) | (3) Warning | -- All adaptations

File	Object/Class	Base Class	Module	Type	Adaptation
customers.scx	frmcustomer.pgf.pa	Combobox		Warning	Check this.RowSourceType and this
order.scx	frmorder.cboemplo	Combobox		Warning	Check this.RowSourceType and this
order.scx	frmorder.cbocount	Combobox		Warning	Check this.RowSourceType and this

Review... | Ignore... | All (3) | Reviewed (0) | Not reviewed (3) | All (3) | Ignored (0) | Not ignored (3)

c:\...\samples\tastrade\sandbox\form\customers.scx!frmcustomer.pgf.pagdetails.cbocountry (tfs.vcx!tfscbo)

Make sure you (re)set this.RowSourceType before setting this.RowSource or calling this.Requery()
Before you change this.RowSource in code and/or call this.Requery(), make sure you (re)set this.RowSourceType beforehand:
#if .f. && Start of code sample
* ...
this.RowSource = "
select ... from ... into cursor myCursor
this.RowSourceType = 2 && Alias && you need to set this.RowSourceType ...

Estimated adaptation time: 2 minutes

2 Files | 3 Modules | Manual adaptations (%) 0.00 %
3 Classes | 0 Instructions | Estimated time (man.days) 0.0 days
0 Forms | 0 Manual adaptations | Quit



(D) Replacing Requery() by thisform.wViewParmSet()

In order to restore form datasession state for each user, FAS needs to know the name and values of view parameters

Project: AB\AW\Samples\Tastrade\Sandbox\tastradefic.pjx | Mode: Source | Copy ... | 1-Analyze | 2-Adapt | 3-Publish

Filter adaptations grid ... (viewing 3 on 25)

File	Object/Class	Base Class	Module	Type	Adaptation
customers.scx	frmcustomer	Form	Refresh	Manual adaptation after step	Requery() to be replaced by thisFo
customers.scx	frmcustomer	Form	Refresh	Manual adaptation after step	Requery() to be replaced by thisFo
order.scx	frmorder.grdorder	Grid	Refresh	Manual adaptation after step	Requery() to be replaced by thisFo

frmCustomer.Refresh

Object: frmCustomer | Procedure: Refresh | View Parent Code

```
Code default() && Added by FoxInCloud Adaptation Assistant version 2.00 beta3 (source mode) on
IF NOT (Type('m.thisForm.wlPropsRestore') == 'L' AND m.thisForm.wlPropsRestore) && Added by
LOCAL cCusID, lnRecno
cCusID = Evaluate(this.grdCustomer.RecordSource + '.customer_ID') && v_customer & v_orders

lnRecno = Recno('v_customer')
TableRevert(.T., 'v_customer')
Requery('v_customer')
if Between(m.lnRecno, 1, Reccount('v_customer'))
  go m.lnRecno in v_customer
endif

lnRecno = Recno('v_orders')
Requery('v_orders')
if Between(m.lnRecno, 1, Reccount('v_orders'))
  go m.lnRecno in v_orders
endif
```



(D) Replacing Requery() by thisform.wViewParmSet()...

Comment
Requery() and add
one call to
thisform.
wViewParm
Set() per
view
parameter:

- View name
- Parm name
- Parm value
- .T. triggers requery().

Any question? Post with screenshot in the 'FoxInCloud' section of <http://west-wind.com/wwThreads/> or <http://www.universalthread.com/>



(E) Splitting .*RowColChange() code into .*RowChange() / .*ColChange()

Whereas VFP fires a single event for grid row and col change, JS grids fire 2 different events.

FAS should run the right code.

FoxInCloud Adaptation Assistant version 2.00 beta3 (source mode) - Support 11/12/13

Project: AB\VAW\Samples\Tastrade\Sandbox\tastradefic.pjx | Mode: Source | Copy ... | 1-Analyze | 2-Adapt | 3-Publish

Filter adaptations grid ... (viewing 1 on 25)

File	Object/Class	Base Class	Module	Type	Adaptation
customers.scx	frmcustomer.grdcu:Grid		AfterRowColChange	Manual adaptation after step	Event code must be split

grdCustomer.AfterRowColChange

Object: grdCustomer | Procedure: AfterRowColChange | View Parent Code

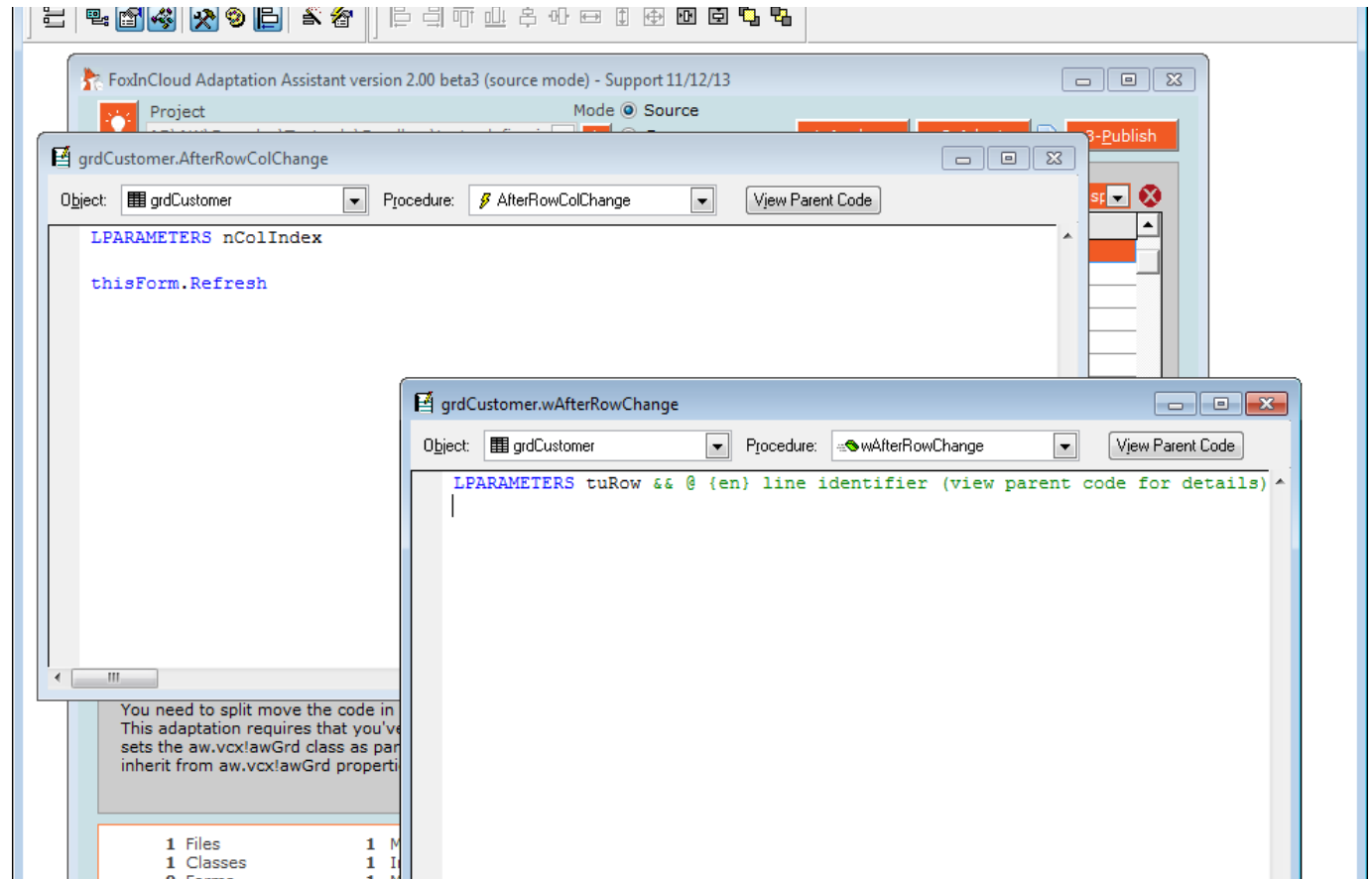
```
LPARAMETERS nColIndex  
  
thisForm.Refresh
```



(E) Splitting .*RowColChange() code to .*RowChange() / .*ColChange() ...

1/ Isolate portions of code that should run on either row or column change.

e.g., If row change, open `.wAfterRowChange()` code





(E) Splitting .*RowColChange() code to .*RowChange() / .*ColChange() ...

2/ Click 'view parent code', select `awGrd`, copy and paste inherited implementation code sample into your empty code snippet

```
awgrd.wAfterRowChange
&& {en} this block executes during HTML generation
&& RETURNed value defines how event is handled:
&& - PROCESS EVENT ON SERVER: RETURN .T. && In this case, event shall
&& - PROCESS EVENT ON CLIENT BROWSER: RETURN <javascript code>
&& - IGNORE EVENT: RETURN .F.

&& {fr} Ce bloc est exécuté pendant la génération de HTML
&& RETURN <value> ; la valeur retournée indique comment traiter l'événement
&& - TRAITER L'ÉVÉNEMENT SUR LE SERVEUR : RETURN .T. && Dans ce cas l'événement est traité
&& - TRAITER L'ÉVÉNEMENT SUR LE NAVIGATEUR CLIENT : RETURN <javascript code>
&& - IGNORER L'ÉVÉNEMENT : RETURN .F.

RETURN .T.

ELSE

IF DoDefault(@m.tuRow) && !m.tuRow.IsNew
* {en} paste here the javascript code
* {fr} coller ici le code javascript

ENDIF

ENDIF

#endif && documentation

grdCustomer.wAfterRowChange *
Object: grdCustomer Procedure: wAfterRowChange View Parent Code
LPARAMETERS tuRow && @ {en} line identifier (view parent code for details)
IF (Type(m.thisForm.wlHTMLGen) == 'L' AND m.thisForm.wlHTMLGen)

&& {en} this block executes during HTML generation
&& RETURNed value defines how event is handled:
&& - PROCESS EVENT ON SERVER: RETURN .T. && In this case, event shall ex
&& - PROCESS EVENT ON CLIENT BROWSER: RETURN <javascript code>
&& - IGNORE EVENT: RETURN .F.

&& {fr} Ce bloc est exécuté pendant la génération de HTML
&& RETURN <value> ; la valeur retournée indique comment traiter l'événement
&& - TRAITER L'ÉVÉNEMENT SUR LE SERVEUR : RETURN .T. && Dans ce cas l'événement est traité
&& - TRAITER L'ÉVÉNEMENT SUR LE NAVIGATEUR CLIENT : RETURN <javascript code>
&& - IGNORER L'ÉVÉNEMENT : RETURN .F.

RETURN .T.
```



(E) Splitting .*RowColChange() code to .*RowChange() / .*ColChange() ...

3/ Move your source code to the location indicated

4/ Empty your original .*RowColChange() method.

The screenshot displays two windows from the 'FoxInCloud Adaptation Assistant' software. The top window, titled 'grdCustomer.AfterRowColChange *', shows an empty procedure for the 'AfterRowColChange' event. The bottom window, titled 'grdCustomer.wAfterRowChange *', shows the code for the new 'wAfterRowChange' event. The code includes comments for server and client events, a return statement for the server event, and a conditional block for the client browser event that calls 'thisForm.Refresh'. A tooltip at the bottom left of the bottom window provides instructions on how to split the code.

```
grdCustomer.wAfterRowChange *
Object: grdCustomer Procedure: wAfterRowChange View Parent Code

&& - PROCESS EVENT ON SERVER: RETURN .T. && In this case, event shall execute
&& - PROCESS EVENT ON CLIENT BROWSER: RETURN <javascript code>
&& - IGNORE EVENT: RETURN .F.

RETURN .T.

ELSE

IF DoDefault(@m.tuRow) && {en} very important {fr} très important

* {en} paste here the row change code CUT from this.AfterRowColChange()
thisForm.Refresh

ENDIF

ENDIF
```

You need to split move the code
This adaptation requires that you
sets the aw.vcx!awGrd class as
inherit from aw.vcx!awGrd

- 1 Files
- 1 Classes
- 0 Forms



(F) Reporting

Because VFP reporting involves Windows resources, you need a different **REPORT** code in desktop mode and Web mode.

The screenshot shows the FoxInCloud Adaptation Assistant version 2.00 beta3 (source mode) - Support 11/12/13. The main window displays a table of adaptations with the following data:

File	Object/Class	Base Class	Module	Type	Adaptation
customers.scx	frmcustomer.cmdpr	Commandbutton	Click	Manual adaptation after step	REPORT FORM in Web mode

Below the table, a code editor window titled 'cmdPrint.Click' is open, showing the following code:

```
#if .f. && {en} ===== Implementation documentation ===== {en}

Value returned indicates to FoxInCloud Application Server how browser should handle this e
RETURN .T. && EXECUTE THIS VFP EVENT CODE (on FoxInCloud server)
RETURN <JavaScript code> && EXECUTE THIS JAVASCRIPT CODE (run in browser only, don't not
RETURN .F. && IGNORE EVENT

For more details and options, see code inherited from aw*

#endif && {en} ===== / Implementation documentation ===== {en}

RETURN .T.&& Process event on server (ELSE block code)

ELSE && Added by FoxInCloud Adaptation Assistant version 2.00 beta3 (source mode) on 11/12/13

local customerID
customerID = Trim(customer.Customer ID)
report form customer for Customer_ID = m.customerID preview && runs in a private datasession
```




(F) Reporting...

1/ Create 2 blocks of code, one for desktop mode, one for web mode.

To test desktop or web mode, you can use `wlWeb()` or `wlLAN()` (in `awPublic.prg`), or `thisForm.wlWeb`

FoxInCloud Adaptation Assistant version 2.00 beta3 (source mode) - Support 11/12/13

Project: AB\VAW\Samples\Tastrade\Sandbox\tastradefic.pjx | Mode: Source | Copy ... | 1-Analyze | 2-Adapt | 3-Publish

Filter adaptations grid ... (viewing 1 on 25)

File	Object/Class	Base Class	Module	Type	Adaptation
customers.scx	frmcustomer.cmdpr Commandbutton	Click		Manual adaptation after step	REPORT FORM in Web mode

cmdPrint.Click*

Object: cmdPrint | Procedure: Click | View Parent Code

```
For more details and options, see code inherited from aw*
#endif && {en} ===== / Implementation documentation ===== {en}

RETURN .T.&& Process event on server (ELSE block code)

ELSE && Added by FoxInCloud Adaptation Assistant version 2.00 beta3 (source mode) on 11/12/13

local customerID
customerID = Trim(customer.Customer_ID)

if wlLAN()
report form customer for Customer_ID = m.customerID preview && runs in a private datasessi
else
endif

ENDIF && Added by FoxInCloud Adaptation Assistant version 2.00 beta3 (source mode) on 11/12/13
```



(F) Reporting...

2/ In Web mode,
`REPORT FORM`
... to a PDF
file using the
PDF
generator of
your choice.

3/ Send back
the PDF to
the browser
using
`thisForm.wFileSaveAs()`

```
local customerID
customerID = Trim(customer.Customer_ID)

if wLAN() && desktop mode

    report form customer for Customer_ID = m.customerID preview && runs in a private datasession

else && Web mode

    local lcFileOut, success, result
    lcFileOut = Textmerge({<<Addbs(Sys(2023))>>customer <<m.customerID>>.pdf}) && into current VFP temp
    report form customer for Customer_ID = m.customerID object type 10 to file (m.lcFileOut) && invokes
    success = thisForm.wFileSaveAs(m.lcFileOut, @m.result) && delivers the file to the user
    if !m.success
        thisForm.wMessageBox(m.result)
    endif

endif

ENDIF && Added by FoxInCloud Adaptation Assistant version 2.00 beta3 (source mode) on 11/12/13 11:53:14
```



Testing the adapted application

Once adapted with
FoxInCloud,
your application can run on
the desktop as usual,
and on the Web within
FoxInCloud Application Server

Just like you did after automated adaptations, run your application and make sure every feature works exactly the same as before ...

The screenshot displays a web application window titled 'Tastrade Customers'. The main content is a table with columns: company, contact, contact title, phone, city, and address. Below the table is a form for 'Customer details' and 'Customer Orders'.

company	contact	contact title	phone	city	address
Alfreds Futterkiste	Maria Anders	Sales Represent	030-0074321	Berlin	Obere Str. 5
Ana Trujillo Empared	Ana Trujillo	Owner	(5) 555-4729	México D.F.	Avda. de la
Antonio Moreno Taq	Antonio Moreno	Owner	(5) 555-3932	México D.F.	Mataderos
Around the Horn	Thomas Hardy	Sales Represent	(71) 555-7788	London	120 Hanove
Berglunds snabbköp	Christina Berglund	Order Administrat	0921-12 34 65	Luleå	Berguvsväg
Blauer See Delikates	Hanna Moos	Sales Represent	0621-08460	Mannheim	Forsterstr. 5
Blondel père et fils	Frédérique Citeau	Marketing Manag	88.60.15.31	Strasbourg	24, place Kl
Bólide Comidas prep	Martín Sommer	Owner	(91) 555 22 82	Madrid	C/ Araquil, 6
Bon app'	Laurence Lebihan	Owner	91.24.45.40	Marseille	12, rue des

Customer details

Company: Alfreds Futterkiste Phone: 030-0074321

Address: Obere Str. 57

Postal code: 12209 City: Berlin Country: Germany

Contact name: Maria Anders Min. amt: \$ 2,600.00 Save

Contact title: Sales Representative Discount: 2% Max. amt: \$ 6,300.00 Cancel

Print Close



Manual adaptations after step 2 completed!

If you ignore each adaptation once done, or re-analyse your project, your adaptation count and time comes down to 0!

FoxInCloud Adaptation Assistant version 2.00 beta3 (source mode) - Support 11/12/13

Project: AB\AW\Samples\Tastrate\Sandbox\tastradefic.pjx | Mode: Source | Copy ...

1-Analyze | 2-Adapt | 3-Publish

Filter adaptations grid ... (viewing 0 on 21)

File	Object/Class	Base Class	Module	Type	Adaptation

Review... | Ignore...

All (0) | Reviewed (0) | Not reviewed (0) | All (21) | Ignored (21) | Not ignored (0)

Estimated adaptation time: 0 minutes

5 Files | 162 Classes | 4 Forms | 187 Modules | 195 Instructions | 0 Manual adaptations

Manual adaptations (%) 0.00 % | Estimated time (man.days) 0.0 days | Quit



Remind of Manual Adaptations after step 3...

Keep in mind that you'll have a few more adaptations to review after next step (3-Publish) is complete!

Project: \Tools\AB\AW\Samples\Tastrade\Sandbox\tastradefic.pjx

Mode: Source Copy ...

1-Analyze 2-Adapt 3-Publish

Filter adaptations grid ... (viewing 7 on 26)

File	Object/Class	Base Class	Module	Type	Adaptation
tastradefic.prg			tastradefic	Manual adaptation after step 3-Publish	Full Path
tastradefic.prg			tastradefic	Manual adaptation after step 3-Publish	SET to execute at application st
tastradefic.prg			tastradefic	Manual adaptation after step 3-Publish	SET to execute at application st
tastradefic.prg			tastradefic	Manual adaptation after step 3-Publish	SET to execute at application st
tastradefic.prg			tastradefic	Manual adaptation after step 3-Publish	SET to execute at application st
tastradefic.prg			tastradefic	Manual adaptation after step 3-Publish	DO FORM <app main form >
tastradefic.prg			tastradefic	Manual adaptation after step 3-Publish	SET to execute at application st

Review... Ignore...

All (7) Reviewed (0) Not reviewed (7) All (26) Ignored (19) Not ignored (7)

```
c:\program files\vfp9\tools\ab\aw\samples\tastrade\sandbox\tastradefic.prg > tastradefic (line 5)
SET CLASSLIB TO 'C:\Program Files\VFP9\Tools\AB\AW\Samples\Tastrade\Sandbox\Class\tfs.vcx' ADDITIVE
```

If file is read-only, remove path form code and it to set('PATH') in application environment class or program (see xxxSets.prg after step 3 - publish).
If file is read/write, add path to application configuration class (see xxxServer.prg\xxxAppConfig after step 3 - publish)

Estimated adaptation time: 0 minutes

6 Files	188 Modules	Manual adaptations (%) 0.00 % Estimated time (man.days) 0.0 days
162 Classes	215 Instructions	
4 Forms	0 Manual adaptations	

Quit