

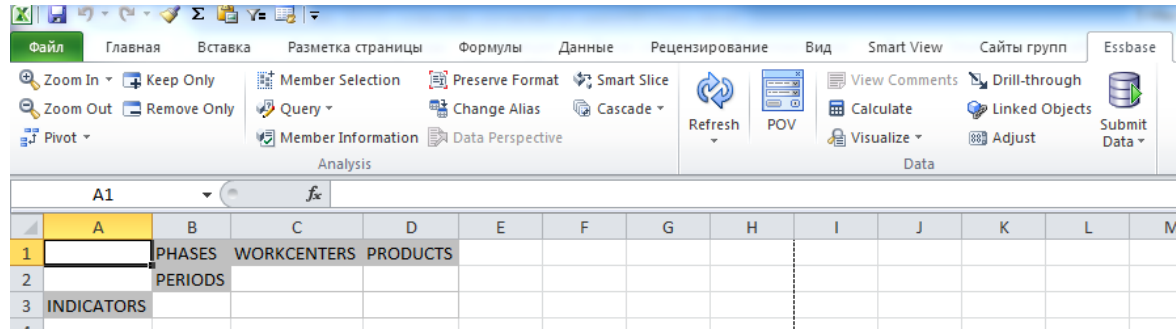
er@essbase.ru

Oracle SmartView Optimizer

5 March 2016

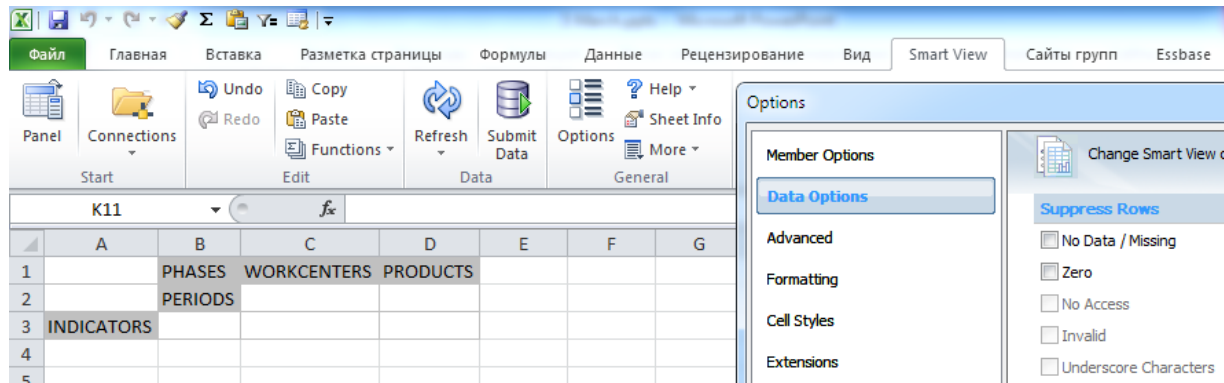
Moscow

SmartView Classic



- more usable options under 4 clicks

- action panel is splitting on two separate windows (ribbons)



- We are very fast in our login-pass typing

- Caution ! turtles is here !

- Lost data ? Don't panic - you are very loyal Oracle user

Oracle® Hyperion Smart View for Office (readme) /* cry with me */



https://docs.oracle.com/cd/E41952_01/epm.11125/readme/smart_view_11125000_readme.html

Known Issues

Subtopics

- [Installation](#)
- [General](#)
- [Disclosure Management](#)
- [Essbase](#)
- [Financial Management](#)
- [Financial Reporting](#)
- [Hyperion Enterprise](#)
- [Oracle BI EE](#)
- [Planning](#)
- [Reporting and Analysis](#)
- [Strategic Finance](#)

The following are the noteworthy known issues of this release.

SmartView Optimizer

main feature list

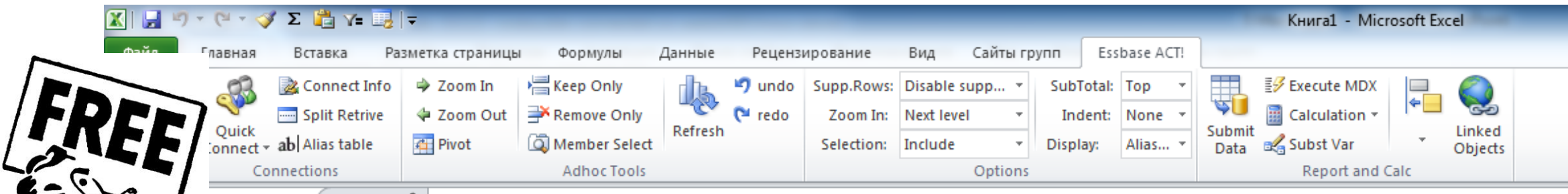


All the most used options under the arms

Suppress
Alias table
Intend
Subtotals

All standard Ad-Hoc button (pivot, keep only ,
remove only, zoom out, zoom in)

Remove any “#Missing” labels



<http://essbase.ru/opensource/essbase-act-excel-ribbon>

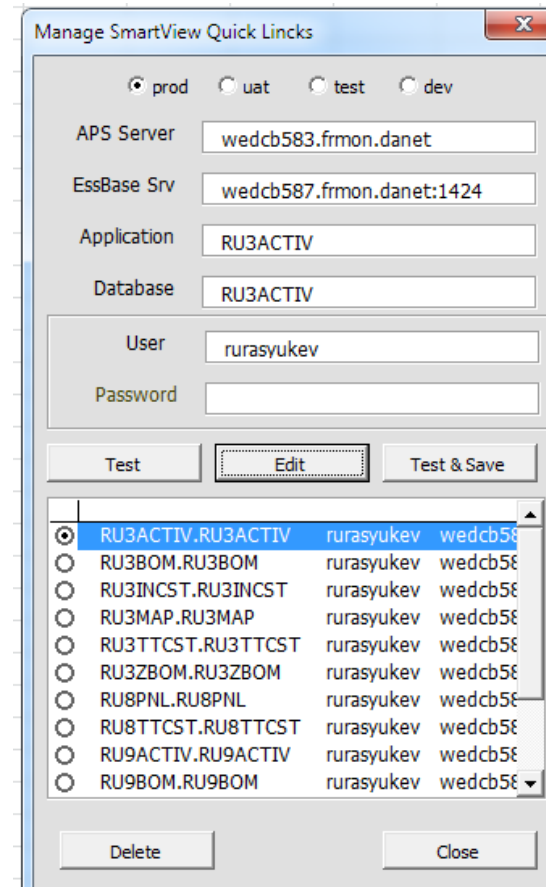
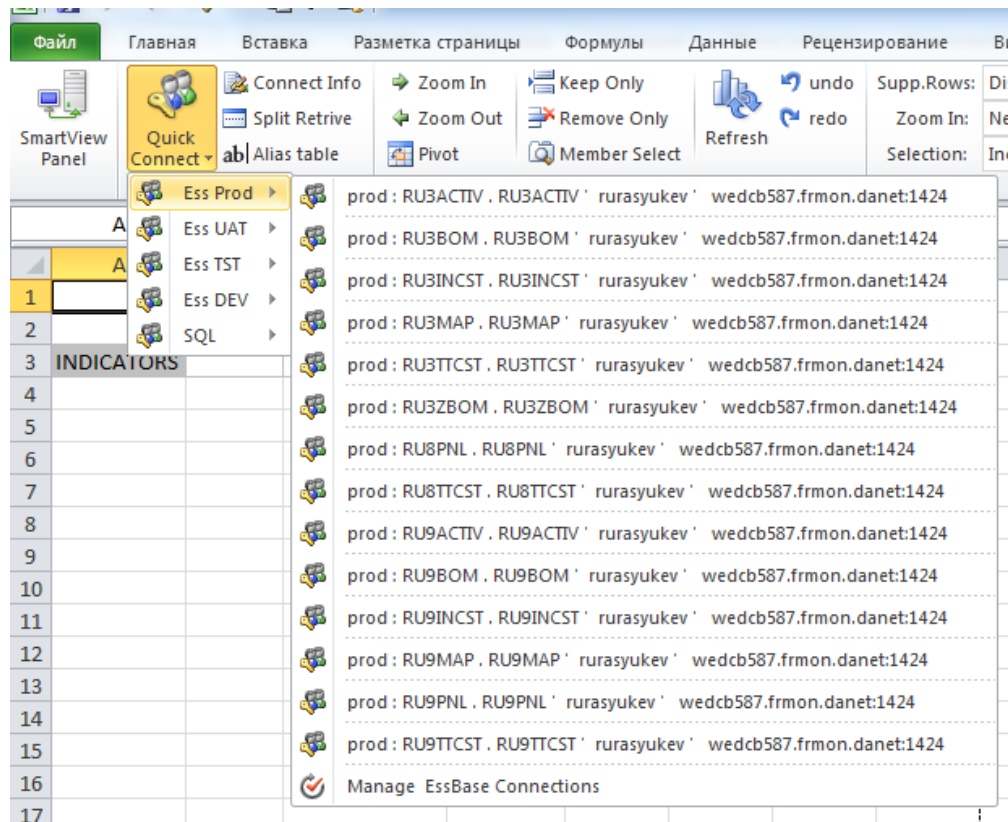
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SmartView Optimizer

main feature list



Quick connection menu for 4 environment ,
for preventing the SmartView authentication hell



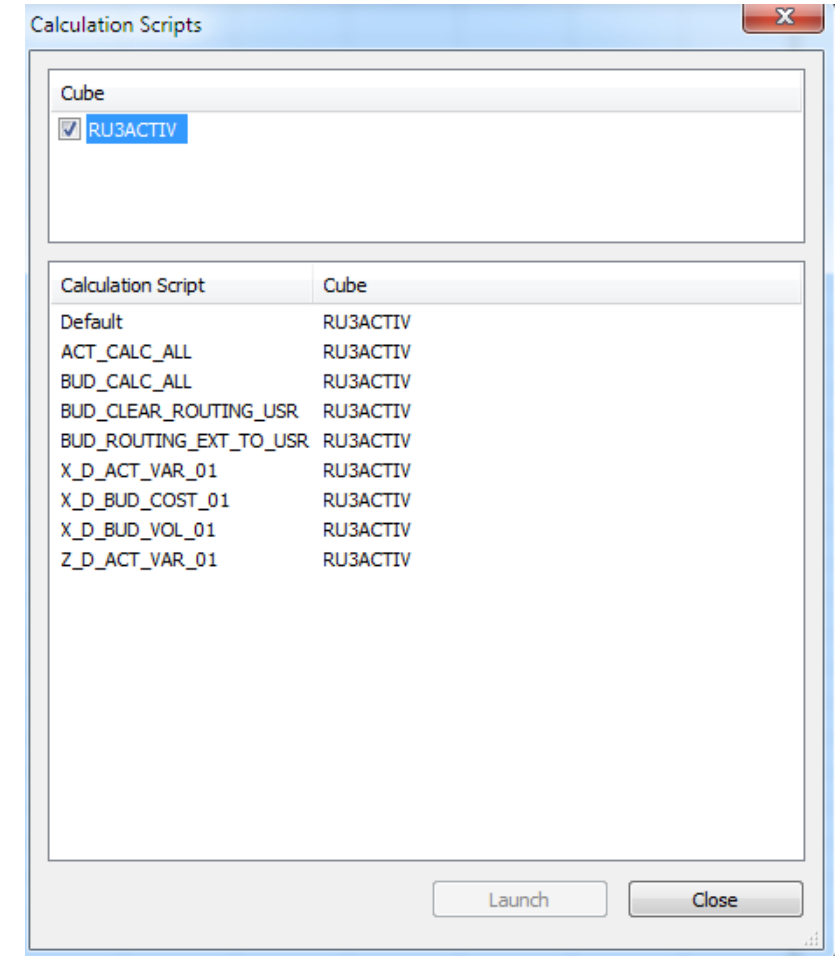
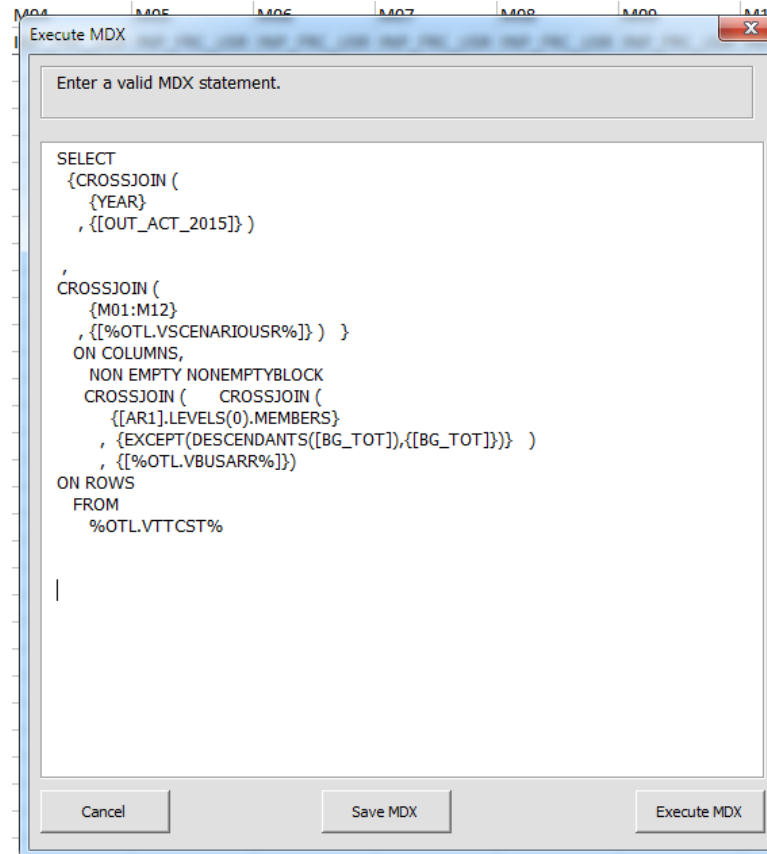
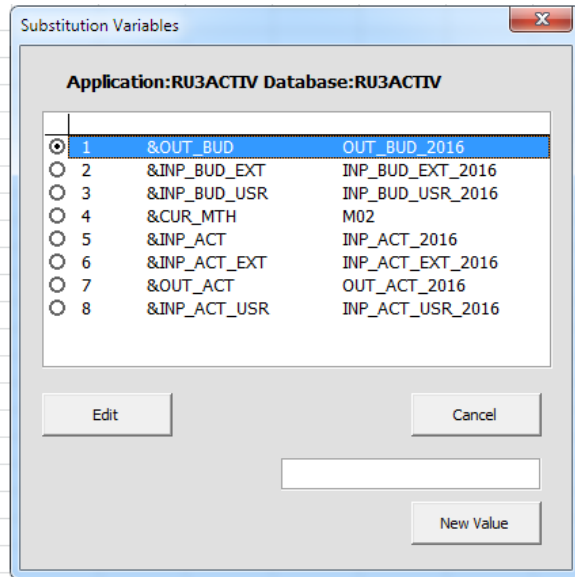
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SmartView Optimizer

main feature list



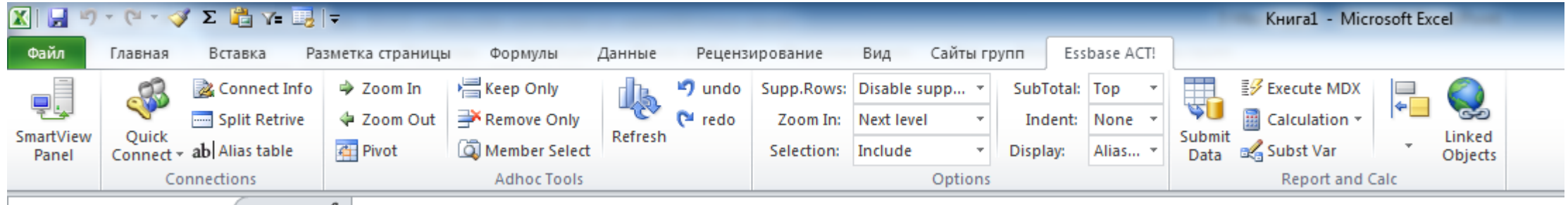
Substitution variable manager
, Execute MDX , Calculations



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SmartView Optimizer

main feature list



Automatic Registry settings
Excel Calculations Performance
Preventing common mistakes :

- Memory leaks
- Use one sheet for different connections
- Preventing creating on the sheet multi greed reports

SmartView Optimizer

Organizing workflow



Detailed WorkFlow is

One sheet with workflows steps and parameters

Other sheets with MDX reports

TE110 FRC RU3 20160218 .xlsx - Microsoft Excel

Файл Главная Вставка Разметка страниц Формулы Данные Рецензирование Вид Smart View Сайты групп Essbase ACT! Формат

SmartView Panel Quick Connect ab Alias table Connections

Zoom In Zoom Out Pivot Keep Only Remove Only Member Select Refresh

Adhoc Tools

Options

MDXVariables

	B	C	D	E	F	G	H
1	Describes		Action List				
2	Планирование расходов						
3	0.1 Подготовка модели к бюджетной компании		exec CSC FRC_CLR				
4	0.2 Внести бюджетные индустриальные затраты		Lock & Send				
5	0.3 Отчет по всем заводам		Retrive				
6							
7	Планирование объема производства и продаж						
8	01 Подготовка модели к бюджетной компании		exec CSC FRC_CLR				
9	02 Внести объемы по ГП на уровень Plant в тоннах		Lock & Send				
10	03 Скопировать значения NetWeight на пользовательскую фазу		exec FRC_WGH_EXT_TO_US				
11	04 Скорректировать значения NetWeight		Lock & Send				
12							
13	Формирование рецептур (BOM)						
14	02 Перенос последнего Бомы по факту на FRC		exec CSC				
15	03 Проверка загрузки данных из DWH (BOM, LOS)		FRC_USR_EXT				
			Retrieve				

vPlantPr=PL_5101;
vBusArr=BA_5185;
vWRC=NA_WC.5101;

vINCST=RU3ZBOM.RU3ZBOM;
vBOM=RU3ZBOM.RU3ZBOM;
vMAP=RU3MAP.RU3MAP;
vTTCST=RU3TTCST.RU3TTCST;
vActive=RU3ACTIV.RU3ACTIV;

vScenarioUSR=INP_FRC_USR;
vScenarioEXT=INP_FRC_EXT;
vScenarioOUT=OUT_FRC_CURR;

Готово

TE110 FRC RU3 20160218 .xlsx - Microsoft Excel

Файл Главная Вставка Разметка страниц Формулы Данные Рецензирование Вид Smart View Сайты групп Essbase ACT! Формат

SmartView Panel Quick Connect ab Alias table Connections

Execute MDX

Enter a valid MDX statement.

```

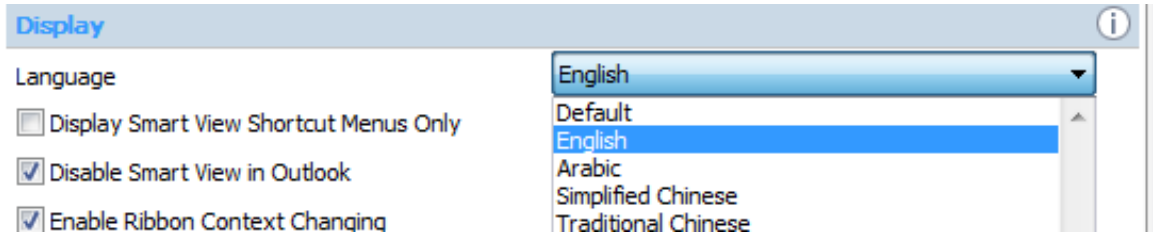
SELECT
{CROSSJOIN (
{YEAR}
,{[OUT_ACT_2015]} )
,CROSSJOIN (
{M01:M12}
,{[%OTL.VSCENARIOUSR%]} ) }
ON COLUMNS,
NON EMPTY NONEMPTYBLOCK
CROSSJOIN ( CROSSJOIN (
{[AR1].LEVELS(0).MEMBERS}
,{EXCEPT(DESCENDANTS([BG_TOT]),[BG_TOT])} )
,{[%OTL.VBUSARR%]} )
ON ROWS
FROM
%OTL.VTTCST%
    
```

	A	B	C
1			
2			
3	PC_100200	B320	BA_51
4	CC_385100	B290	BA_51
5	CC_385102	B250	BA_51
6	CC_385101	B250	BA_51
7	CC_385101	B257	BA_51
8	PC_399850	B350	BA_51
9	CC_385106	B250	BA_51
10	CC_385106	B360	BA_51
11	PC_399851	B350	BA_51
12	CC_385110	B250	BA_51
13	CC_385107	B250	BA_51
14	CC_385107	B257	BA_51
15	CC_385131	B260	BA_51
16	CC_385130	B260	BA_51

Готово

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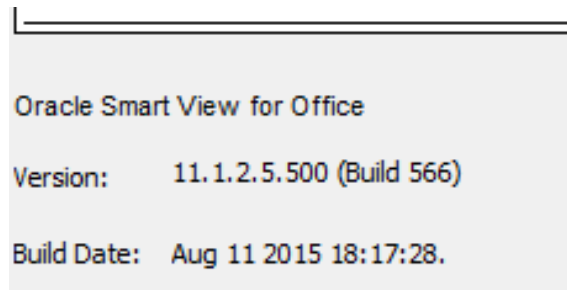
SmartView Optimizer know issues



Works only if SV set up to English language

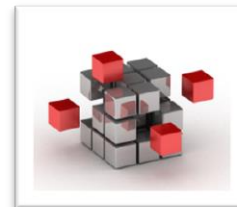
MDX queries supported only if SmartView have grater version than 11.1.2.5

In some cases before creating Quick Connection link you need create connection using standard SV way. (It's usually happens in the first times)



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all useful options in one place



Project - EssBaseRibbon

EssBaseRibbon (EssBaseWF.xlam)

- Microsoft Excel Objects
- Forms
 - fExecuteMDX
 - fManageConnexionLinks
 - fSubsVariables
- Modules
 - mCommonSVC
 - mCryptoSVC
 - mFileConnSVC
 - mRegistrySVC
 - mRibbonAct
 - mRibbonDyn
 - mRibbonOPT**
 - mRibbonSVC
 - mSVCommonSVC
 - mSVConnectSVC
 - mSVGeneralLIB
 - mSVMdxSVC
 - mSVPlanningAct
 - mSVStyleSVC
 - mTextBoxSVC
 - mVariablesSVC

VBAPProject (HsTbar.xla)

VBAPProject (Logis.xlsx)

- Microsoft Excel Objects
 - Лист1 (Лист1)
 - Лист2 (Лист3)
 - Лист3 (Лист2)
 - Лист4 (Лист4)

(General)

```
End Sub

Sub p_SetOption(vStrOption As Variant, vOptionValue As Variant)
Dim strErr As String
Dim cnt As Integer
'https://docs.oracle.com/cd/E38438_01/epm.111223/sv_developer/frameset.htm?ch13s06.html

cnt = getCountWB()

    'If Not (ActiveSheet Is Nothing) Then
If Not (cnt = 0) Then

    If Not (vStrOption = 999) Then
        x = HypSetOption(vStrOption, vOptionValue, ActiveSheet.Name)

        If x <> 0 Then
            strErr = x & " HypSetOption1 "
            GoTo ErrorHandler
        End If
    End If

    If (vStrOption < 17) And Not (vStrOption = 999) Then
        x = HypSetSheetOption(Empty, vStrOption, vOptionValue)

        If x <> 0 Then
            strErr = x & " HypSetSheetOption "
            GoTo ErrorHandler
        End If
    End If
End If
```

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Optimize Excel Calculations p1



EssBaseRibbon (EssBaseWF.xlam)

- Microsoft Excel Objects
 - Forms
 - fExecuteMDX
 - fManageConnectionLinks
 - fSubsVariables
 - Modules
 - mCommonSVC
 - mCryptoSVC
 - mFileConnSVC
 - mRegistrySVC
 - mRibbonAct
 - mRibbonDyn
 - mRibbonOPT
 - mRibbonSVC**
 - mSVCommonSVC
 - mSVConnectSVC
 - mSVGeneralLIB
 - mSVMdxSVC
 - mSVPlanningAct
 - mSVStyleSVC
 - mTextBoxSVC

```
End Sub

Sub p_OnRibbonLoad(vRibbon As IRibbonUI)
    On Error GoTo ErrorHandler
    Dim lngRibPtr
    Dim vCurrConnPrefix

    Dim cnt
    cnt = getCountWB()

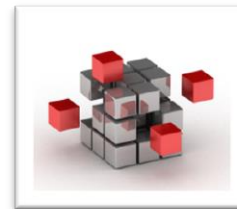
    Application.MultiThreadedCalculation.Enabled = True
    Application.AutoRecover.Time = 7
    Application.EnableEvents = True

    If Not (cnt = 0) Then

        Set vIRibbonUI = vRibbon

        lngRibPtr = ObjPtr(vRibbon) 'HandleID van Ribbon
        Call p_WriteGlobalProperty(rbHandleProp, lngRibPtr)
    End Sub
```

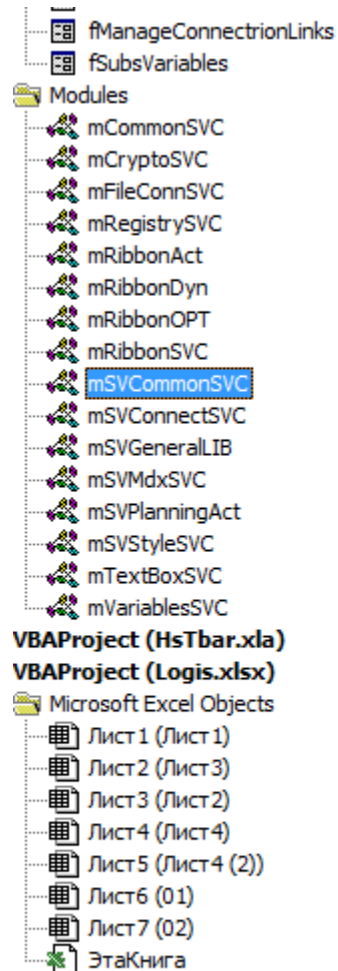
Optimize Excel Calculations p2



The screenshot shows the VBA Project Explorer on the left and the VBA Code window on the right. The Project Explorer is for the 'EssBaseRibbon (EssBaseWF.xlam)' project. It shows a hierarchy with 'Microsoft Excel Objects' and 'Forms' (containing fExecuteMDX, fManageConnectionLinks, and fSubsVariables) and 'Modules' (containing mCommonSVC, mCryptoSVC, mFileConnSVC, mRegistrySVC, mRibbonAct, mRibbonDyn, mRibbonOPT, mRibbonSVC, mSVCommonSVC, mSVConnectSVC, mSVGeneralLib, mSVMdxSVC, mSVPlanningAct, mSVStyleSVC, and mTextBoxSVC). The 'mCommonSVC' module is selected. The Code window displays two VBA subroutines: 'p_setExcelCalcOff()' and 'p_setExcelCalcOn()'. The 'p_setExcelCalcOff()' subroutine sets various application and worksheet properties to False to disable automatic calculations and screen updates. The 'p_setExcelCalcOn()' subroutine sets these properties back to True to re-enable automatic calculations and screen updates, and also formats the active cell range.

```
Sub p_setExcelCalcOff()  
    Application.ScreenUpdating = False  
    Application.DisplayStatusBar = False  
    Application.Calculation = xlCalculationManual  
    Application.EnableEvents = False  
    ActiveSheet.DisplayPageBreaks = False  
    ActiveSheet.UsedRange.EntireRow.Hidden = False  
End Sub  
  
Sub p_setExcelCalcOn()  
    ActiveSheet.UsedRange.Select  
    Selection.NumberFormat = "#,##0.00"  
    ActiveSheet.Cells(1, 1).Select  
    Application.ScreenUpdating = True  
    Application.DisplayStatusBar = True  
    Application.Calculation = xlCalculationAutomatic  
    Application.EnableEvents = True  
    ActiveSheet.DisplayPageBreaks = True  
    ActiveSheet.UsedRange.EntireRow.Hidden = False  
End Sub
```

SmartView issues workarounds



```
EssBaseWF.xlam - mSVCommonSVC (Code)
(General)

Sub p_checkTime()
    Dim sngEnd As Single
    Dim sngElapsed As Single
    sngEnd = Timer

    ActiveSheet.AutoFilterMode = False
    ActiveWindow.FreezePanes = False

    If StartExcelTime = 0 Then
        StartExcelTime = sngEnd
    End If

    sngElapsed = Format(sngEnd - StartExcelTime, "Fixed")

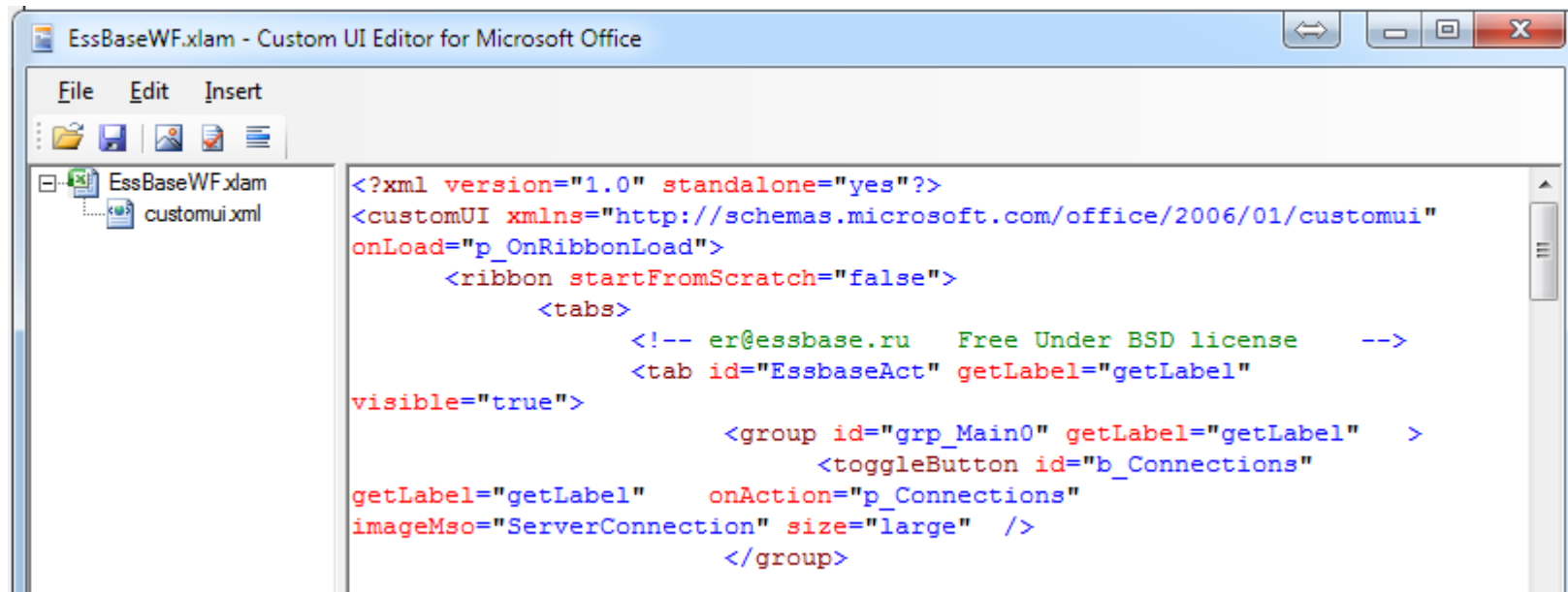
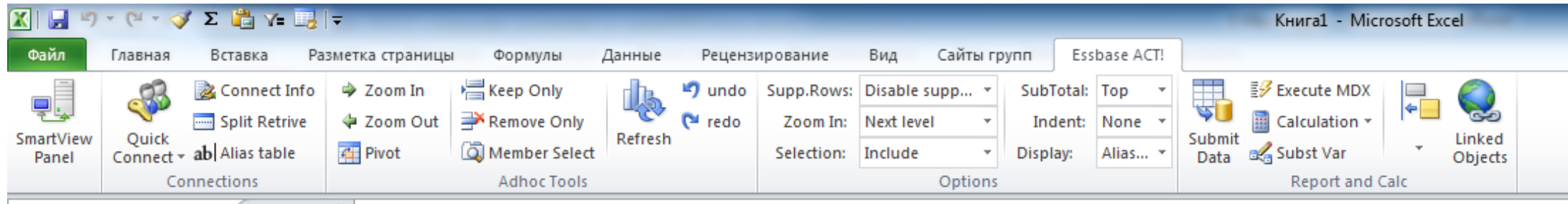
    If sngElapsed > 14400 Then
        MsgBox "It's time to restart Excel ", vbExclamation
    End If
End If

If svc_GetMemUsage > 1024000 Then
    MsgBox "Memory Leaks. It's time to restart Excel ", vbCritical
End If

If vIsRibbonnError Then
    MsgBox "Ribbon Crash. It's time to restart Excel ", vbCritical
    vIsRibbonnError = False
End If
End If
```

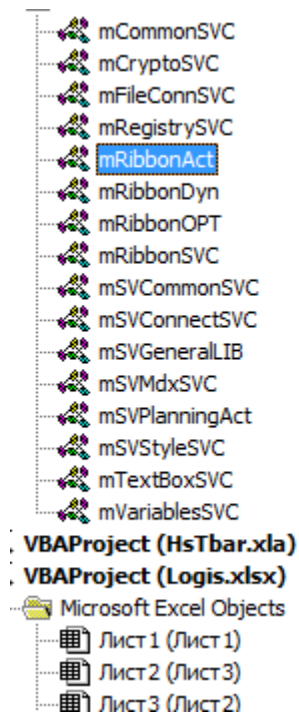
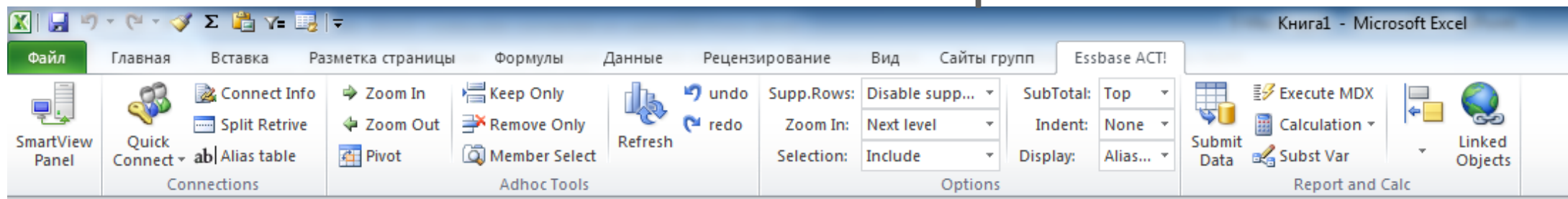
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Create Ribbon Buttons



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all buttons in one place



```
Sub p_ZoomOut (ByVal vIRibbonControl As IRibbonControl)
On Error GoTo ErrorHandler

    Call p_CheckConnection

    Call p_setExcelCalcOff
        x = HypMenuVZoomOut ()

    Call p_freezePanel
    Call p_setExcelCalcOn

    If x <> 0 Then GoTo ErrorHandler

    x = HypShowPov(False)
    isMDXSlice = False
1_exit:
    Exit Sub
ErrorHandler:
'Call p_ErrorHandler(x, "p_ZoomOut")
    x = 0
End Sub
```

remove any #Missing labels



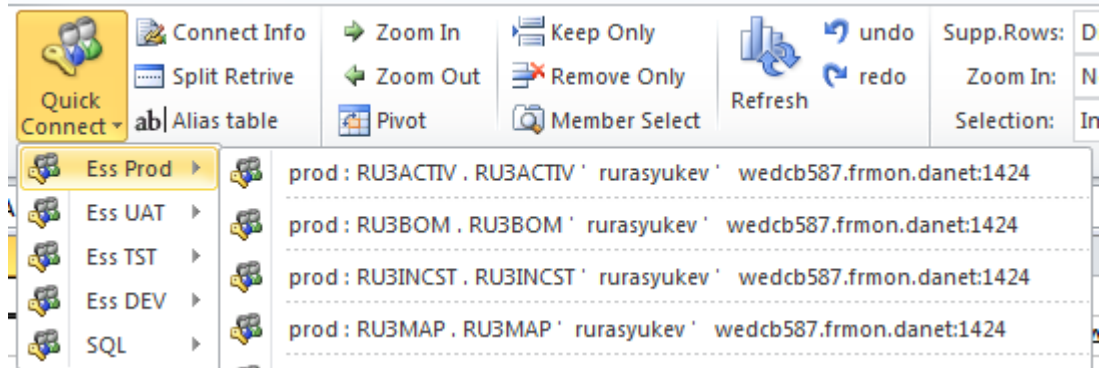
-mCryptoSVC
-mFileConnSVC
-mRegistrySVC
-mRibbonAct
-mRibbonDyn
-mRibbonOPT
-mRibbonSVC
-mSVCommonSVC
-mSVConnectSVC
-mSVGeneralLIB
-mSVMdxSVC

```
Sub p_mnMissInit(vIRibbonControl As IRibbonControl, ByRef itemID As Variant)
    itemID = "none" & "" & "0" & "#NumericZero"
    vHSV_MISSING_LABEL = "" & " " & "#NumericZero"
    Call p_SetOption(HSV_MISSING_LABEL, vHSV_MISSING_LABEL)
End Sub
```

M11	M11	M11	M11	M11	
OUT_ACT	OUT_ACT	OUT_ACT	OUT_ACT	OUT_ACT	
P_99530	P_99530	P_99530	P_99530	P_99530	
ST_02	ST_03	ST_04	ST_05	ST_06	
IFO	IFO	IFO	IFO	IFO	
7 034,29	0,09				
12 413,45	0,15				
27 723,37	0,34				
66 205,07	0,82				
27 309,59	0,34				
78 894,37	0,98				
16 198,72	0,58				

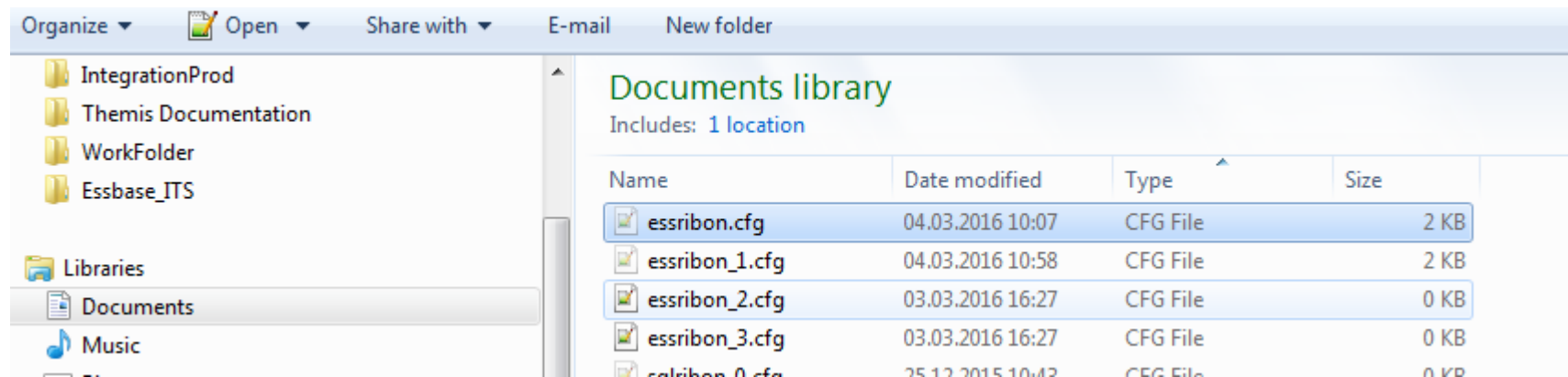
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Quick Connections



```

RU8PNL'RU8PNL'wedcb587.frmon.danet:1424'rurasyukey'wedcb583.frmon.danet|RU8PNL|RU8PNL|rurasyukey|34473150304B31595645
RU9ACTIV'RU9ACTIV'wedcb587.frmon.danet:1424'rurasyukey'wedcb583.frmon.danet|RU9ACTIV|RU9ACTIV|rurasyukey|34473150304B31595645
RU9BOM'RU9BOM'wedcb587.frmon.danet:1424'rurasyukey'wedcb583.frmon.danet|RU9BOM|RU9BOM|rurasyukey|34473150304B31595645
RU9INCST'RU9INCST'wedcb587.frmon.danet:1424'rurasyukey'wedcb583.frmon.danet|RU9INCST|RU9INCST|rurasyukey|34473150304B31595645
    
```



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MDX Executor



EssBaseRibbon (EssBaseWF.xlam)

- Microsoft Excel Objects
- Forms
 - fExecuteMDX**
 - fManageConnectionLinks
 - fSubsVariables
- Modules
 - mCommonSVC
 - mCryptoSVC
 - mFileConnSVC
 - mRegistrySVC
 - mRibbonAct
 - mRibbonDyn
 - mRibbonOPT
 - mRibbonSVC
 - mSVCommonSVC
 - mSVConnectSVC
 - mSVGeneralLIB
 - mSVMdxSVC
 - mSVPlanningAct
 - mSVStyleSVC
 - mTextBoxSVC
 - mVariablesSVC

VBAProject (HsTbar.xla)

VBAProject (Logis.xlsx)

- Microsoft Excel Objects
 - Лист 1 (Лист 1)
 - Лист 2 (Лист 3)
 - Лист 3 (Лист 2)
 - Лист 4 (Лист 4)

EssBaseWF.xlam - fExecuteMDX (UserForm)

Execute MDX

EssBaseWF.xlam - fExecuteMDX (Code)

bExecuteMDX

```
Private Sub bExecuteMDX_Click()  
On Error Resume Next  
Unload Me  
  
If ActiveSheet Is Nothing Then  
MsgBox "active sheet is not determinated "  
Exit Sub  
End If  
  
Dim vCurrMDX  
vCurrMDX = UCase(Me.mdxTextBox.Text)  
If InStr(vCurrMDX, "FROM") = 0 Or InStr(vCurrMDX, "SELECT") = 0 Then  
MsgBox " Check MDX Statment "  
Exit Sub  
End If  
  
Call p_deleteAllTextBox("MDXq")  
Call p_CreateTextBox("MDXq", "" & vCurrMDX)  
Call hideTextBox("MDXq")  
  
Call p_ExecStoredMDXINT
```



<http://essbase.ru/opensource/essbase-act-excel-ribbon>

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