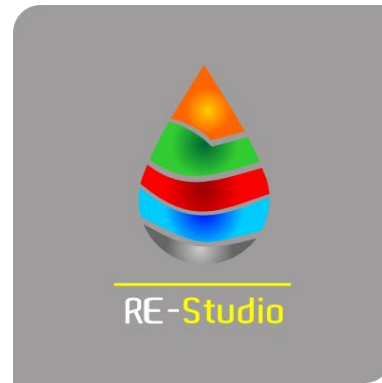


RE-Studio – For ECLIPSE®



Tutorial for RE-Studio module For ECLIPSE®



Start: open a DATA file

The screenshot shows the RE-Studio software interface. The 'Open' menu option is highlighted with an orange box. The 'Recent Files' list includes the following files:

- G:\DemoData\ForEclipse\INCLUDE\ForecastControls.SCH
- G:\DemoData\ForEclipse\INCLUDE\History.SCH
- G:\DemoData\ForEclipse\ALWYN_2010.DATA
- C:\Users\Xavier Baudoin\Desktop\Classeur2.csv
- C:\Users\Xavier Baudoin\Desktop\Classeur1.csv

The main window displays the 'DATES' section with the following text:

DATES [TOC] [] [] [Index]

Advances simulator to specified report date(s)

x	ECLIPSE 100
x	ECLIPSE 300
	SPECIAL
	RUNSPEC
	GRID
	EDIT
	PROPS

The software title bar indicates 'For ECLIPSE - RE-Studio - v. 3.1.3205'. The bottom right corner features the logo for 'For ECLIPSE®'.



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For ECLIPSE® module



The screenshot displays the RE-Studio application window titled 'ALWYN_2010.DATA - RE-Studio - v. 3.1.3.205'. The central window shows the Eclipse editor with the following content:

```
1 --Demo RE-Studio
2 --Switch to prediction mode from 1st Jan 2015
3 --Management in Project Manager
4 --Begin Amarile Project Manager Criteria. Please do not edit.
5 --LGR=None
6 --Perm Model=2010
7 --End Amarile Project Manager Criteria
8 RUNSPEC
9 -----
10 TITLE
11 BRENT EAST - BO FULL FIELD MODEL WITH E100
12
13 DIMENS
14 36 51 18 /
15
16 BLACKOIL
17
18 METRIC
19 DISGAS
20 GAS
21 OIL
22 WATER
23
24 TABDIMS
25 --N1SF N1EV NSSF NPPF N1FP
26 2 1 25 1* 1* /
27
28 FAULTDIM
29 -- N1SEG
30 24 /
31
```

The interface also includes a 'DATES' section with a table of dates and a project tree on the right side. The project tree shows a hierarchy of folders and files, including 'RUNSPEC', 'GRID', 'PROPS', 'REGIONS', 'SOLUTION', 'SUMMARY', and 'SCHEDULE'. The 'SCHEDULE' folder is expanded, showing sub-items like 'SCHEDULE', 'RPTSCHE', 'RPTST', and 'VPCHK'.

An orange box highlights the central Eclipse editor window. Below the editor, an 'Error List' window is visible, which is currently empty. A text box at the bottom of the screenshot contains the text: 'An Eclipse editor in the central window'.



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For ECLIPSE® module



ALWYN_2010.DATA--RE-Studio--v. 3.1.3.205

For ECLIPSE

2D Viewer 3D Viewer Project Manager Compare Props Builder PRT Viewer Well Controls Well Trajectories Well Monitor Run Messages

Save Paste Copy Comment Uncomment Block Mode Find Replace Replace Area Check E300 Compare Plot Folder Run Command Related Files Model Actions

Instant Help

Enter Keyword

Follow Cursor

DATES

Advances simulator to specified report date(s)

Keyword Browser: ALWYN_2010

Enter Filter

Help

RUNSPEC

GRID

PROPS

DENSITY

PVT0

PVDG

PVTW

ROCK

INCLUDE: File G:\DemoData\Foreclipse\INCLUDE\SaturationTable

SWOF

SGOF

REGIONS

SOLUTION

SUMMARY

SCHEDULE

SCHEDULE

RPTSCHE

RPTSTR

INCLUDE: File G:\DemoData\Foreclipse\INCLUDE\TableLVFP

VFPCHK

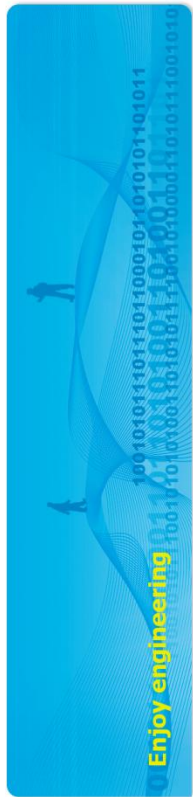
VERNOOP

Error List: ALWYN_2010

Enter Filter

Discard Show All Reset

Error	Type	File Name	Section	Keyword	Details	Line
-------	------	-----------	---------	---------	---------	------



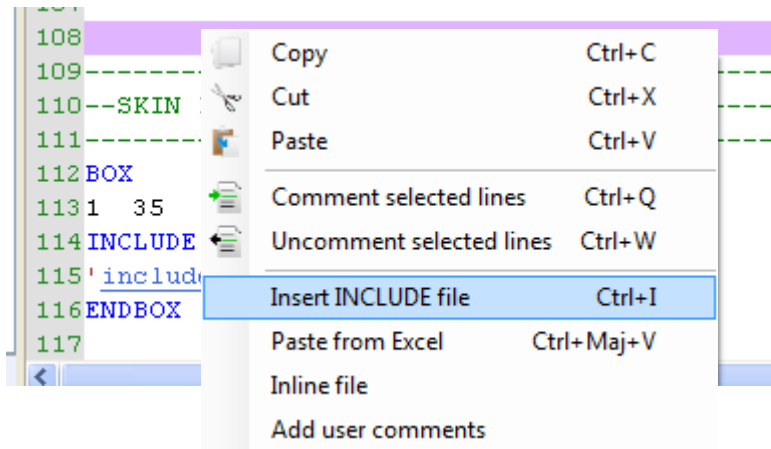
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Focus on Editor window

- ❏ Syntax coloration
- ❏ Open Include in one click
- ❏ Include a file by right clicking
- ❏ Switch to Block mode by pressing Alt on keyboard

```
83 INCLUDE
84 'include/CDLMC Mod3.GRDECL' /
85
86 INCLUDE
87 'include/PORO CDLMC.INC' /
88
```



```
172
173 THPRESFT
174 -- faults Threshold
175 'class1' 0 /
176 'class2' 2.5 /
177 'class3' 4.3 /
178 'class4' 6.2 /
179 'class5' 8 /
180 'class6' 10 /
181/
```

DEMO →

```
172
173 THPRESFT
174 -- faults Threshold
175 'classDEMO' 0 /
176 'classDEMO' 2.5 /
177 'classDEMO' 4.3 /
178 'classDEMO' 6.2 /
179 'classDEMO' 8 /
180 'classDEMO' 10 /
181/
```

Check model and tackle errors

The screenshot shows the Eclipse RE-Studio interface. A dropdown menu is open, showing options for 'Check' with 'E100' and 'E300' selected. A text box overlay reads: "You can change the check from E100, E300, INTERSECT or TNav". The main window displays a well log for 'DISGAS' with a table of well dimensions. The error list at the bottom shows an error on line 47 of 'ALWYN_2010.DATA' related to a missing slash in the 'WELLDIMS' keyword.

You can change the check from E100, E300, INTERSECT or TNav

This indicates that the run contains dissolved gas in live oil

44	GRIDOPIS
45	YES /
46	
47	WELLDIMS
48	-- NIW NICW NTG NIWG NTS NTWS
49	25 25 4 25 1* 10
50	
51	START
52	1 OCT 2008 /
53	
54	UNIFIN
55	UNIFOOT
56	
57	NSTACK
58	200 /
59	
60	--NOSIM
61	-----
62	GRID
63	-----
64	RPTGRID

Error	Type	File Name	Section	Keyword	Details	Line
16	Error	ALWYN_2010.DATA	RUNSPEC	WELLDIMS	A slash is missing in a record of keyword WELLDIMS, before the next keyword starts at line 51.	47

Enjoy engineering

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Check model and tackle errors

DISGAS
Run contains dissolved gas in live oil

```
343 /
35
36VFPFDIMS
37 20 10 10 10 5 2 /
38
39
40REGDIMS
41-- NTFIP NTFIPR
42 3 18 /
43
44GRIDOPIS
45OPS /
46
47WELLDIMS
48-- NTW NTGN NTG NTWG NTS NTWS
49 25 25 4 25 1* 10
50
51START
521 OCT 2008 /
```

Errors are highlighted in red
Double-click to go to errors

This indicates that the run contains

Error List: ALWYN_2010

Error	Type	File Name	Section	Keyword	Details	Line
16	Error	ALWYN_2010.DATA	RUNSPEC	WELLDIMS	A slash is missing in a record of keyword WELLDIMS, before the next keyword starts at line 51.	47

Enjoy engineering

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View entire model with Browsers

The screenshot displays the RE-Studio software interface. The main window shows a list of keywords in a text editor, with the first line highlighted in yellow. A text box with four bullet points is overlaid on the main window. To the right, a 'Keyword Browser' window is open, showing a tree view of the model structure. At the bottom, an 'Error List' window is visible.

- All keywords in DATA + Includes
- Included keywords in blue
- Double click to browse to keyword
- Use filter to search for a given keyword

Keyword Browser: ALWYN_2010

Enter Filter

Help

- +- RUNSPEC
- +- GRID
- +- PROPS
 - PROPS
 - DENSITY
 - PVTO
 - PVDG
 - PVTW
 - ROCK
 - INCLUDE: File G:\DemoData\ForEclipse\INCLUDE\SaturationTable
 - SWOF
 - SGOF
- +- REGIONS
- +- SOLUTION
- +- SUMMARY
- +- SCHEDULE
 - SCHEDULE
 - RPTSCHED
 - RPRST
 - INCLUDE: File G:\DemoData\ForEclipse\INCLUDE\TableLVFP
 - VFPCHK
 - VFPNOOP

File Explorer | Keyword Browser

Enter Filter

Error List

Error	Type	File Name	Section	Keyword	Details	Line
-------	------	-----------	---------	---------	---------	------

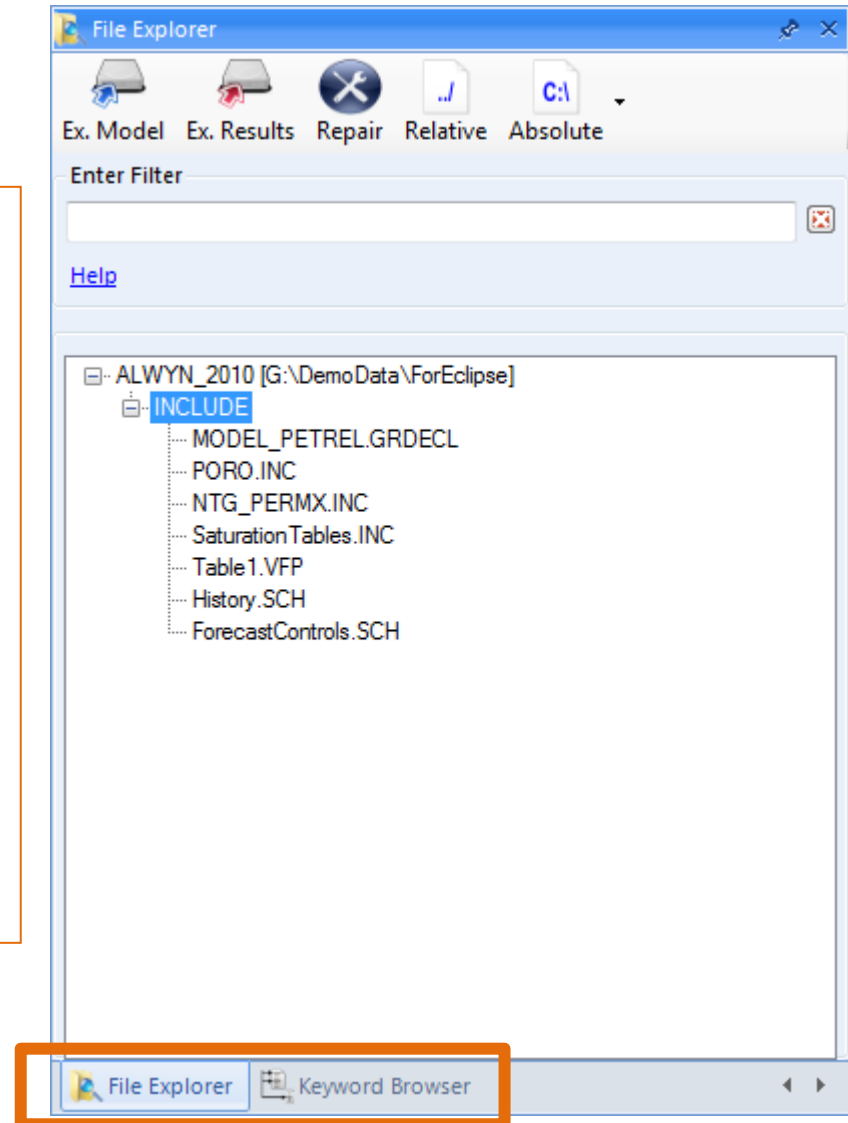


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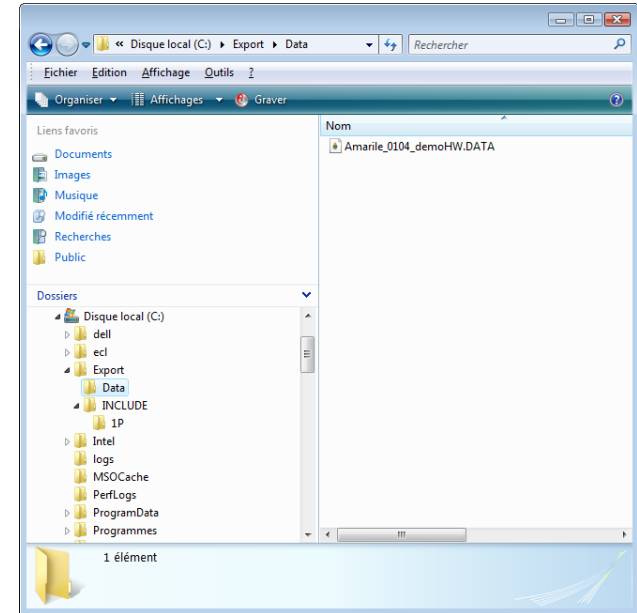
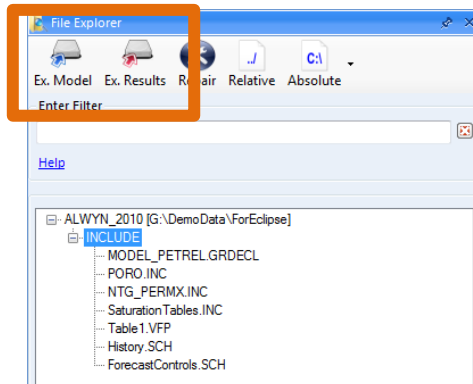


View entire model with Browsers

- On the right side panel you have access to the File Explorer tab
- View all files used in the model
- Double click to open a given file
- Nested Include at level 2 in the tree



Use Export Model or Copy to take advantage of File Explorer list



You can export with or without the results files

- DATA file and Included Files are exported to the selected directory
- That directory will be the export root; RE-Studio will automatically create the subfolders needed by the included files of the model