

## AUTOMATIC GENERATION OF A DISTRIBUTION MODEL



### Target:

Few slides show how EXPERTIZERS combines simplicity of input data distribution from a spreadsheet (or IS) and its natural ability to automatically generate the resulting tree.

After this demonstration suggests that EXPERTIZERS can handle tens and hundreds of entities in a single model based solely on distribution rules.

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# STRUCTURE OF A FILE FOR AUTOMATIC GENERATION OF MODEL EUROTOP\_1

File: C:\expertiers\import\Eurotop\_auto\_tree.txt – spreadsheet view

	A	B	C	D	E	F
1	Entity	Nature 1 or 2	Account or Activity	activity	Ratio	driver name
2						
3	EUROTOP		1 110 rayonnages	achat mp rayon	100	percentage %
4			1 120 transpalettes	achat mp transpal	100	percentage %
5			1 311 management	administration	3	Number of managers
6				commercialiser	1	
7				acheter	1	
8				organiser stockage	2	
9			1 520 frais financiers	administration	100	percentage %
10			1 540 frais assurance	administration	100	percentage %
11			1 600 charges supplet	administration	100	percentage %
12			1 530 frais commercial	commercialiser	100	percentage %
13			1 230 charlots	stocker	100	percentage %
14			1 231 palettes	stocker	100	percentage %
15			1 313 employes	administration	2	Number of employees
16				commercialiser	4	
17				acheter	2	
18				organiser stockage	3	
19			1 410 immobilier	administration	60	Square meter
20				commercialiser	50	
21				stocker	1000	
22				acheter	40	
23				organiser stockage	15	
24			1 510 frais communic	commercialiser	60	percentage %
25				acheter	40	percentage %
26			1 312 maîtrise	stocker	2	Number of Supervisors
27				monter	2	
28				reparer	2	
29			1 314 ouvriers	stocker	23	Number of Workmen
30				monter	4	
31				reparer	3	
32			1 250 outillage divers	stocker	1	Equal distribution (1/3)
33				monter	1	
34				reparer	1	
35			2 administration	commercialiser	1	Equal distribution (1/6)
36				stocker	1	
37				monter	1	
38				reparer	1	
39				acheter	1	
40				organiser stockage	1	
41			2 monter	monter reparer	100	percentage %
42			2 reparer	monter reparer	100	percentage %

Maximum data length:

Entity: 20 c

Nature: 1 c

Account or activity: 50 c

Activity: 50 c

Ratio: numeric with decimals

Driver name: 20 c

**NB: Three other columns G,H,I are reserved but not yet used today.**

The columns are fully met or not. The loading program is rearranging all by itself ! It detects the blank lines and provides reports of data in column to find breaks significant and treat them as such.

Nature 1 = cost distribution from section over activities

Nature 2 = cost distribution from activity over other activities

The order of nature has no importance, as the order of the entities. The input is very flexible

The loading program is in charge to detect true anomalies of consistency !

If the column 'driver name' contains the% sign control allocation is 100% guaranteed..



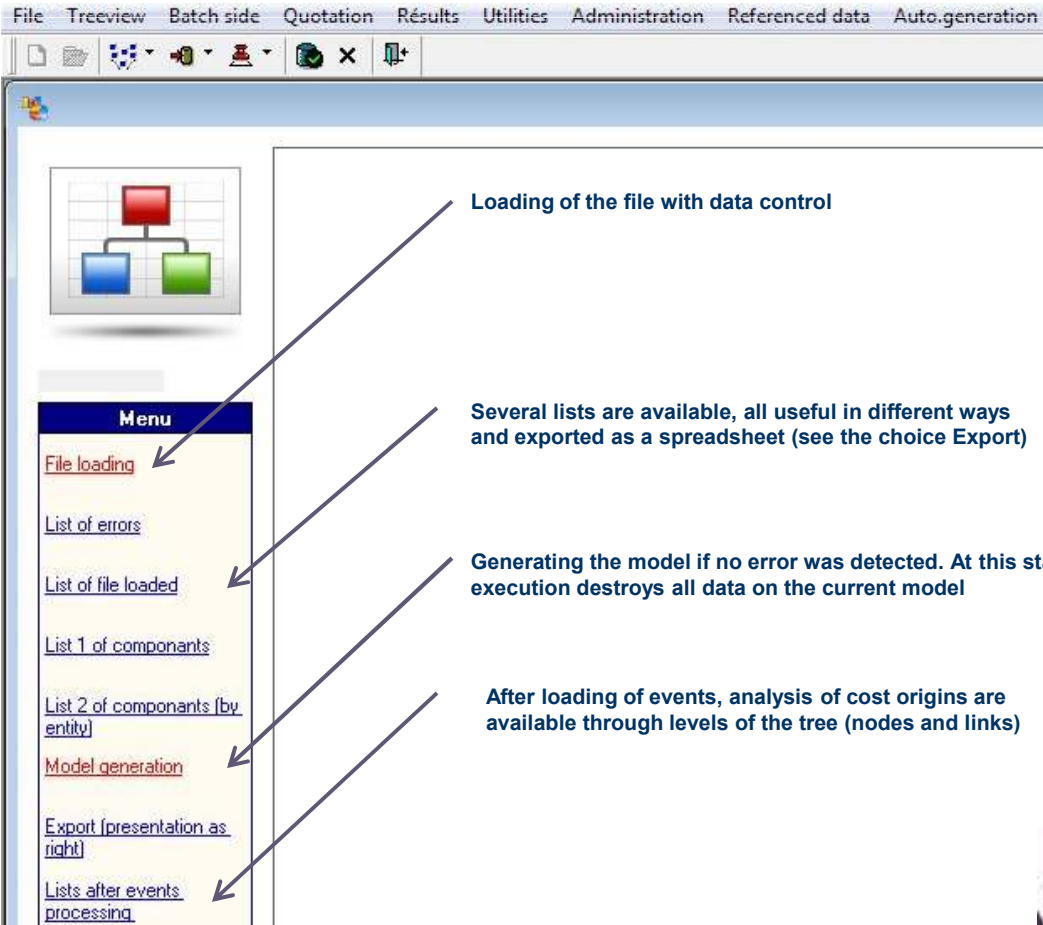
# LOADING OF FILE ALLOCATION

The file structure needs to be in tab-delimited text (TXT); so prepare your data in this format.

Preferably start from a blank template (copy model\_V1.ex1), because process will destroy all data from the current model.

In the description of the file, delete variable 'quantity\_init' and create instead (in fifth column) a more speaking variable for the object of the model (for instance coût – cost in english).

use the choice 'Auto.generation' in the software menu.



The screenshot shows a software window with a menu bar and a main menu. A red arrow points from the text 'use the choice 'Auto.generation' in the software menu.' to the 'Auto.generation' menu item. The main menu is titled 'Menu' and contains the following items:

- File loading
- List of errors
- List of file loaded
- List 1 of components
- List 2 of components (by entity)
- Model generation
- Export (presentation as right)
- Lists after events processing

Annotations with arrows pointing to the menu items:

- From 'File loading' to: Loading of the file with data control
- From 'List of errors' to: Several lists are available, all useful in different ways and exported as a spreadsheet (see the choice Export)
- From 'List of file loaded' to: Generating the model if no error was detected. At this stage, execution destroys all data on the current model
- From 'List 2 of components (by entity)' to: After loading of events, analysis of cost origins are available through levels of the tree (nodes and links)



## THE TREE AFTER GENERATION (Menu: Treeview / Root / expand all)

Locked mode

Root

- Variable Types
  - Event File Entry Description (Updatable)
    - entity
    - period
    - product\_code
    - event\_code
    - coût
  - Cost Activity File Entry Description (Not Updat.)
  - User Internal Variables (Updatable)
    - current\_date
    - cadence\_init
  - Variables generated automatically
    - cadence
    - activity\_value
    - activity\_cost
    - activity\_text
    - value\_act\_ADMINISTRATION
    - cost\_act\_ADMINISTRATION
    - value\_act\_MONTER
    - cost\_act\_MONTER
    - value\_act\_REPARER
    - cost\_act\_REPARER
- Entity Description
  - EUROTOP
    - Operations
    - Activities
      - SEC\_110\_RAYONNAGES\_1
      - ACHAT\_MP\_RAYON**
      - SEC\_120\_TRANSPALETTES\_1
      - ACHAT\_MP\_TRANSPAL**
      - SEC\_311\_MANAGEMENT\_2
      - SEC\_313\_EMPLOYES\_2
      - SEC\_410\_IMMOBILIER\_2
      - SEC\_520\_FRAIS\_FINANCIERS\_1
      - SEC\_540\_FRAIS\_ASSURANCE\_1
      - SEC\_600\_CHARGES\_SUPPLET\_1
      - ADMINISTRATION**
      - SEC\_311\_MANAGEMENT\_1
      - SEC\_313\_EMPLOYES\_1
      - SEC\_410\_IMMOBILIER\_1
      - SEC\_510\_FRAIS\_COMMUNIC\_1
      - SAV ADMINISTRATION 1

**Suite**

- COMMERCIALISER**
- SEC\_250\_OUTILLAGE\_DIVERS\_1
- SEC\_312\_MAITRISE\_1
- SEC\_314\_OUVRIERS\_1
- SAV\_ADMINISTRATION\_3
- MONTER**
- SEC\_311\_MANAGEMENT\_4
- SEC\_313\_EMPLOYES\_4
- SEC\_410\_IMMOBILIER\_4
- SAV\_ADMINISTRATION\_4
- ORGANISER\_STOCKAGE**
- SEC\_250\_OUTILLAGE\_DIVERS\_2
- SEC\_312\_MAITRISE\_2
- SEC\_314\_OUVRIERS\_2
- SAV\_ADMINISTRATION\_5
- REPARER**
- SEC\_230\_CHARIOTS\_1
- SEC\_231\_PALETTES\_1
- SEC\_250\_OUTILLAGE\_DIVERS\_3
- SEC\_312\_MAITRISE\_3
- SEC\_314\_OUVRIERS\_3
- SEC\_410\_IMMOBILIER\_5
- SAV\_ADMINISTRATION\_6
- STOCKER**
- SAV\_MONTER\_1
- SAV\_REPARER\_1
- MONTER\_REPARER**

Quotation Data Order

It remains only to load the events resulting from analytical and process it.  
(cf le document [resolution\\_eurotop\\_1.pdf](#)).



## Analysis of activity 'MONTER\_REPARER' (Nodes and links)



Entity	Activity Title	Node	Activity	Total Process	Pct.links	Total For Activity	Pct.activity	Level
EUROTOP	MONTER_REPARER	1	MONTER_REPARER	6812,455	100,000	6812,455	100,000	3
EUROTOP	MONTER_REPARER	0	SAV_REPARER_1	3377,194	49,574	3377,207	49,574	3
EUROTOP	MONTER_REPARER	0	SAV_MONTER_1	3435,261	50,426	3435,249	50,426	3
EUROTOP	MONTER_REPARER	1	REPARER	3377,194	100,000	3377,207	49,574	2
EUROTOP	MONTER_REPARER	0	SAV_ADMINISTRATION_5	2238,660	66,288	2238,683	32,862	2
EUROTOP	MONTER_REPARER	0	SEC_314_OUVRIERS_2	174,200	5,158	174,196	2,557	2
EUROTOP	MONTER_REPARER	0	SEC_312_MAITRISE_2	725,667	21,487	725,660	10,652	2
EUROTOP	MONTER_REPARER	0	SEC_250_DUTILLAGE_DIVERS_2	238,667	7,067	238,667	3,503	2
EUROTOP	MONTER_REPARER	1	MONTER	3435,261	100,000	3435,249	50,426	2
EUROTOP	MONTER_REPARER	0	SAV_ADMINISTRATION_3	2238,660	65,167	2238,649	32,861	2
EUROTOP	MONTER_REPARER	0	SEC_314_OUVRIERS_1	232,267	6,761	232,257	3,409	2
EUROTOP	MONTER_REPARER	0	SEC_312_MAITRISE_1	725,667	21,124	725,662	10,652	2
EUROTOP	MONTER_REPARER	0	SEC_250_DUTILLAGE_DIVERS_1	238,667	6,948	238,681	3,504	2
EUROTOP	MONTER_REPARER	1	ADMINISTRATION	13431,961	100,000	4477,332	65,723	1
EUROTOP	MONTER_REPARER	0	SEC_600_CHARGES_SUPPLET_1	2400,000	17,868	800,010	11,743	1
EUROTOP	MONTER_REPARER	0	SEC_540_FRAIS_ASSURANCE_1	100,000	0,744	33,311	0,489	1
EUROTOP	MONTER_REPARER	0	SEC_520_FRAIS_FINANCIERS_1	9177,000	68,322	3059,003	44,903	1
EUROTOP	MONTER_REPARER	0	SEC_410_IMMOBILIER_2	131,948	0,982	43,967	0,645	1
EUROTOP	MONTER_REPARER	0	SEC_313_EMPLOYES_2	316,727	2,358	105,575	1,550	1
EUROTOP	MONTER_REPARER	0	SEC_311_MANAGEMENT_2	1306,286	9,725	435,421	6,392	1
EUROTOP	MONTER_REPARER	1	250_OUTILLAGE_DIVERS	716,001	100,000	477,348	7,007	0
EUROTOP	MONTER_REPARER	1	311_MANAGEMENT	3048,001	100,000	435,421	6,392	0
EUROTOP	MONTER_REPARER	1	312_MAITRISE	2177,001	100,000	1451,322	21,304	0
EUROTOP	MONTER_REPARER	1	313_EMPLOYES	1742,000	100,000	105,575	1,550	0
EUROTOP	MONTER_REPARER	1	314_OUVRIERS	1742,000	100,000	406,453	5,966	0
EUROTOP	MONTER_REPARER	1	410_IMMOBILIER	2562,000	100,000	43,967	0,645	0
EUROTOP	MONTER_REPARER	1	520_FRAIS_FINANCIERS	9177,000	100,000	3059,003	44,903	0
EUROTOP	MONTER_REPARER	1	540_FRAIS_ASSURANCE	100,000	100,000	33,311	0,489	0
EUROTOP	MONTER_REPARER	1	600_CHARGES_SUPPLET	2400,000	100,000	800,010	11,743	0

- Menu**
- [File loading](#)
  - [List of errors](#)
  - [List of file loaded](#)
  - [List 1 of componants](#)
  - [List 2 of componants \(by entity\)](#)
  - [Model generation](#)
  - [Export \(presentation as right\)](#)
  - [Lists after events processing](#)

**Activity result**

Entities:

Activity or level concerned:

Presentation (Nodes, Nodes and links):



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