



# ExGen - XBRL Taxonomy Generator

Eurofiling Workshop

Madrid 01.06.2012

# ExGen - General information

ExGen was developed in order to facilitate creation of taxonomies according to the draft Eurofiling architecture out of the Data Points Model in MS Excel format

## Main features:

- automatic creation of primary items, dimensions, domains (structures of members) taxonomies consisting of schema files and linkbases (label and definition) out of the Excel DPM
- interface for definition and output of tables linkbase (according to Eurofiling draft rendering schema and algorithms)
- interface for definition and output of multidimensional data model (definition linkbase)

## Important characteristics

- Excel Add in
- requires .NET (v 3.5) and Excel libraries (2007 or higher) in use
- no formal requirements set upfront (functionalities created and added on-the-fly)
- no XBRL validation (some rules included for errors discovered during testing)
- limited customization possible with many rules hardcoded

# Overview of functionalities

- hardcoded taxonomy architecture (common and EBA/ECB/EIOPA/... specific definitions, separate taxonomies for base, domain and dimension items) and possibility to customize basic generation data (file names, namespaces, data types)
- reads information from worksheets in the correctly formatted DPM Excel workbook: definitions of items (worksheets discovered by hyperlinks or set manually) and relations (basing on worksheet name including "\_D" at the end) and allows for editing in tool specific interface
- **generates taxonomies (common and domain specific) for:**
  - primary items: items definitions (schema), labels (linkbase)
  - dimensions: explicit and typed (schema, typed domain is referenced), labels (linkbase)
  - domains: members (schema) and their standard labels (linkbase), subdomains for dimensions – structures and specific labels (linkbases with custom ELRs)
- **table linkbase (and associated files) design interface and output**
  - uses information extracted from the DPM Excel worksheet in the step described above
  - outputs table linkbase files (schema, rendering and generic label linkbases, including folders structure)
- **definition linkbase for data cubes model - design interface and output**
  - uses information extracted from the DPM Excel worksheet and table definition, described in the steps above
  - outputs linkbase files (schema, definition and label linkbases, including folders structure)
- save of extracted, rendering and data model information (zipped xml file in custom format with .exc extension); load possible at any time in future (prompts for files: DPM Excel and Excels used for rendering)

# ExcelToXBRL Add In - Taxonomy Generator

## List of contributors:

- Ignacio Boixo, BdE, [www.bde.es](http://www.bde.es)
- Augusto Ruiz, IECISA [www.ieci.es](http://www.ieci.es)
- Bartosz Ochocki, BR-AG [www.br-ag.eu](http://www.br-ag.eu)
- Derek De Brandt, AGUILONIUS
- Renata Fiedura, BSB. [www.bsb.pl](http://www.bsb.pl)
- Víctor Morilla, BdE. [www.bde.es](http://www.bde.es)
- Wouter Van Sever, AGUILONIUS

## Licenses

EUPL European Union Public Licence



Creative Commons by Ruiz, Ochocki, De Brant, Fiedura, Morilla, Wouter & Boixo



## Openfiling website

- ExGen installation files
- Source codes
- Presentation - user guide
- Installation guide

[www.openfiling.info](http://www.openfiling.info)

# ExGen User Interface

The screenshot displays the ExGen User Interface within a Microsoft Excel window titled "DataPointsModel - Microsoft Excel". The interface is divided into several panes:

- Top Ribbon:** Includes tabs for "Pliki", "Narzędzia główne", "Wstawianie", "Układ strony", "Formuły", "Dane", "Recenzja", "Widok", and "XBRL Generator AddIn".
- Navigation Bar:** Contains buttons for "Load", "Export XBRL", "Extract from sheet", "Data points tree", "Data cubes tree", "EntryPoint Schema", "Save", "Edit domain list", "Review Coord. Values", "Export XBRL", and "Save As".
- Main Table:** A table with columns "Item type", "Name", "ID", "Period", and "Data type". It lists 15 base items, including "Abstract", "Assets", "Equity", and "Liabilities".
- DataCubes Tree:** A hierarchical tree view showing the structure of data cubes, including nodes like "eu/tpl/t03/t03.xsd" and "http://www.eurofiling.info".
- XBRL Presentation Tree:** A tree view showing the presentation structure, including nodes like "eu/tpl/t03/t03.xsd" and "eu/tpl/t05/t05.xsd".
- Bottom Panels:** Two panels labeled "Rżne" (Miscellaneous) showing extension data, including "ExtLinkRoles", "Prefix", "TargetFileName", and "TargetNamespace".

	A	B	C	D	E	F	G
1	1	Base items	Item type	Name	ID	Period	Data type
2	1	Abstract	Primary item	ad1	base_ad1	duration	string
3	1	Assets	Primary item	mi1	base_mi1	instant	moneta
4	2	Assets and liabilities	Primary item	mi2	base_mi2	instant	moneta
5	3	Change in equity	Primary item	md3	base_md3	duration	moneta
6	4	Collateral or other credit enhancement received as security	Primary item	mi4	base_mi4	instant	moneta
7	5	Commitments and financial guarantees given	Primary item	mi5	base_mi5	instant	moneta
8	3	Commitments and financial guarantees received	Primary item	mi3	base_mi3	instant	moneta
9	6	Entity name	Primary item	sd6	base_sd6	duration	string
10	7	Entry date	Primary item	dd7	base_dd7	duration	date
11	8	Equity	Primary item	mi8	base_mi8	instant	moneta
12	9	Equity and liabilities	Primary item	mi9	base_mi9	instant	moneta
13	10	Expense	Primary item	md10	base_md10	duration	moneta
14	11	Income	Primary item	md11	base_md11	duration	moneta
15	12	Income/(Expense)	Primary item	md12	base_md12	duration	moneta
16	13	Liabilities	Primary item	mi13	base_mi13	instant	moneta
17	14	Removal date	Primary item	dd14	base_dd14	duration	date
18	15	Voting rights	Primary item	pi15	base_pi15	instant	percen



Demonstration



Thank You ....

Renata.Fiedura@bsb.pl