

Data Point Methodology (DPM), ISO standard 5116

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1. Introduction

This article briefly explains what is the Data Point Methodology (DPM, also known as *Data Point Model*) and set of references of this methodology of design with the economic reports.

2. The Data Point Methodology (DPM) as ISO standard 5116

The DPM model is a logical model oriented to data with business meaning and based on the *Multidimensional Data Model* (MDM) and in which the information requirements of European supervisors are reflected [57..64; 65..70;109..111].

The reports required by supervisors have predefined requirements through various regulations and are represented in tables. In 2005, the European Supervisors and Regulators had to consider a unification in data to collect from financial institutions, until that moment each country had its dictionaries with definitions of economic data, and they planned their unification [5; 7].

A first aim was the realization of a set of reports necessary in banking supervision, COREP (*COmmon solvency ratio REPorting*) [1; 2; 4; 6; 8]. Dictionaries of items to collect were created.

COREP is defined by the EBA (*European Banking Authority*, formerly *Committee of European Banking Supervisors*) to be used by credit institutions and investment firms when they report their solvency ratio to supervisory authorities under the Capital Requirements Directive (CRD) [30].

In 2007, a first model was developed, based on metrics, domains and dimensions, which was initially proposed by the *Banca d'Italia*, was the *Matrix Schema* [10;12].

The first data point models (DPM) began to be developed from the *Matrix Schema* in 2009 to describe metadata without redundancy, in a coherent and unambiguous way [16].

The DPM was originally proposed and led by the Bank of Spain and after through Eurofiling [19; 20; 23; 25].

This model started using the taxonomies of Balance Sheet Items and Interest Rates Monetary Financial Institutions [18] and they were worked by the Polish business reporting advisory group, BR-AG.

The objective was the develop of XBRL taxonomies for COREP (Common REPorting, focused on the consolidated, sub-consolidated and solo reporting of capital requirements and capital and reserves based on EU directives) and FINREP (FINancial REPorting for supervisory purposes inspires in IAS/IFRS). More information in *Eurofiling*¹.

The DPM was also improved in the development of taxonomies for respectively Cayman Islands Monetary Authority and Bermuda Monetary Authority.

In 2012, the use of XBRL became widespread among the supervisory community [25..27; 31; 33..35; 38; 40..46]. The effort to build the set of metadata that eventually led to a set of taxonomies, promoted the use of a methodology among the European Supervision.

This methodology could be used in the elaboration and documentation of XBRL taxonomies, for supervisory and statistical reports. The challenge was raised that the DPM methodology should be applied not only by the EBA, but also by the other European supervisory agencies, and for the statistical requirements of the ECB, as in many cases the institutions and groups filing the data are the same [38].

It was planned to try to reach a consensus on a unique DPM methodology at an international level, as occurs in other business areas, since a generalization would lower costs in infrastructure and development. In May 2012, through *Eurofiling* community, the CEN WS XBRL group of volunteers and experts was built to work on the standardization of the DPM model at the European Committee for Standardization (CEN) [65].

The DPM has evolved and is currently being used in production in 27 EU member states, as well as the UK, South Africa, the Russian Federation, Moldova and Israel [121]. The European regulators, including the ECB, EBA, EIOPA, European Commission or SRB (Single Resolution Board), are not only users, but actively contribute to shaping the future of the DPM [87..93; 99..108].

The standard is used to create common models and rules through supervisory, statistical and financial data in regulatory environments for banking, insurance, pension funds and investment firms.

In August 2021, the DPM of the CEN was promoted to ISO standard [109..111]. Now, as ISO standard 5116, the DPM as living topic, needs to continue developing, having to meet all the challenges that the future entails.

The new DPM standard consists of three documents titled:

- ISO 5116-1:2021. Improving transparency in financial and business reporting — Harmonization topics — Part 1: European data point methodology for supervisory reporting [109].
- ISO 5116-2:2021. Improving transparency in financial and business reporting — Harmonization topics — Part 2: Guidelines for data point modelling [110].
- I ISO 5116-3:2021. mproving transparency in financial and business reporting — Harmonization topics — Part 3: Mapping between DPM and MDM [111].

¹ <https://eurofiling.info/portal/>.

3. References

The following table shows all the references to the DPM found, the majority contained in *Eurofiling*². References are sorted by date, the first column indicates this order. The second column shows the publication date. The third, the title. The fourth, the author or authors. The fifth, the name of the file and reference to how to obtain it. And, the sixth, it has various comments, such as type of document, name of the conference or magazine, with their references.

Number	Date	Title	Author or Authors	Name or the file	Comments
1	7/2/2005	Data Modelling COREP.	Guillermo Rodriguez (BdE).	DataModellingCOREP-GuillermoRodriguez.ppt ³	Eurofiling ⁴ . 1 st European Banking Supervisors XBRL Workshop. ⁵
2	7/2/2005	COREP & The New Capital Adequacy Framework	Frédéric Marié (BdF)	GeneralPresentationFredericMarie.ppt ⁶	Eurofiling ⁷ . 1 st European Banking Supervisors XBRL Workshop. ⁸
3	7/2/2005	Data Model for Common Reporting.	Frédéric Marie (BdF), Adrian Abbot (UK FSA).	DataMatrix-FredericMarie-ArianAbbot.xls ⁹	Work document. Eurofiling ¹⁰ . 1 st European Banking Supervisors XBRL Workshop. ¹¹
4	7/2/2005	Quality Model	César Pérez-Chirinos (BdE)	QualityModel-CesarPerezChirinos.ppt ¹²	Eurofiling ¹³ . 1 st European Banking Supervisors XBRL Workshop. ¹⁴
5	4/2/2005	Proposal of an XBRL profile for common European reporting on solvency ratios.	P. Milani, F. Di Giovanni, P. Maurizi & M. Romanelli, Bank of Italy.	XBRLProfile.pdf ¹⁵	Banca d'Italia.
6	18/4/2005	Proposal for a COREP-metamodel (paper and presentation).	Michele Romanelli	ProposalCOREPMetamodel-MicheleRomanelli.zip ¹⁶	XBRL-COREP project: Proposal for a COREP-metamodel. Madrid, 18-21 April 2005. ¹⁷
7	1/6/2005	New Technical and Normative Challenges for XBRL: Multidimensionality in the COREP Taxonomy.	Ignacio Boixo, XBRL Spain & Francisco Flores, University of Huelva.	Multidimensionality.pdf ¹⁸ , 1577-8517-v5_3.pdf ¹⁹	The International Journal of Digital Accounting Research, Vol. 5, N. 9, 2005, pages 79-104. ISSN: 1577-8517. DOI:10.4192/1577-8517-V5_3 ²⁰
8	1/7/2007	Multidimensional XBRL (New Dimensions of Business Reporting and XBRL).	Debreceeny, R., Felden, C., Piechocki, M	L-G-0000020903-0002377968.pdf ²¹	DUV Deutscher Universitäts-Verlag. Pages: 191-209, July 1 st , 2007.
9	6/11/2007	Matrix Schemas for	Michele	MRomanelliMatrix.ppt	VIII European Supervisors XBRL

² <https://eurofiling.info/portal/data-point-model/>.

³ http://www.eurofiling.info/1st_workshop/presentations/DataModellingCOREP-GuillermoRodriguez.ppt.

⁴ http://www.eurofiling.info/about_us/about_us.shtml.

⁵ http://eurofiling.info/1st_workshop/1st_workshop.shtml.

⁶ http://eurofiling.info/1st_workshop/presentations/GeneralPresentationFredericMarie.ppt.

⁷ http://www.eurofiling.info/about_us/about_us.shtml.

⁸ http://eurofiling.info/1st_workshop/1st_workshop.shtml.

⁹ http://www.eurofiling.info/1st_workshop/presentations/DataMatrix-FredericMarie-ArianAbbot.xls.

¹⁰ http://www.eurofiling.info/about_us/about_us.shtml.

¹¹ http://eurofiling.info/1st_workshop/1st_workshop.shtml.

¹² http://eurofiling.info/1st_workshop/presentations/QualityModel-CesarPerezChirinos.ppt.

¹³ http://www.eurofiling.info/about_us/about_us.shtml.

¹⁴ http://eurofiling.info/1st_workshop/1st_workshop.shtml.

¹⁵ <http://www.eurofiling.info/data/documents/XBRLProfile.pdf>.

¹⁶ http://eurofiling.info/2nd_workshop/2nd_workshop.shtml.

¹⁷ http://eurofiling.info/2nd_workshop/2nd_workshop.shtml.

¹⁸ <http://www.eurofiling.info/data/documents/Multidimensionality.pdf>.

¹⁹ http://www.uhu.es/ijdar/10.4192/1577-8517-v5_3.pdf.

²⁰ <http://www.ijdar.org/volume-previous-volume-5>.

²¹ <https://download.e-bookshelf.de/download/0000/0209/03/L-G-0000020903-0002377968.pdf>.

Number	Date	Title	Author or Authors	Name or the file	Comments
		COREP & FINREP Templates (pdf) and introductory PowerPoint.	Romanelli		Workshop. 6-7 th of November, Amsterdam ²²
10	22/11/2007	Matrix Schemas for COREP & FINREP Templates.	Michele Romanelli	readme_matrix_schema.pdf ²³	Draft 1.0. ²⁴ Banca d'Italia
11	29/9/2008	Lessons learned at pan-European Cross-border bank.	Derek De Brandt, Philippe Leys,	20080930_CEBS-IX_XBRLFSE-at-Fortis.pdf ²⁵	IX European Banking Supervisors XBRL Workshop ²⁶ & Tutorial In: Paris
12	29/9/2008	Matrix Schema Tutorial	Michele Romanelli	MRomanelliMatrixSchemaTutorial.ppt	IX European Banking Supervisors XBRL Workshop ²⁷ & Tutorial In: Paris
13	22/6/2009	Implementing XBRL for a cross-border banking group in Europe	Giancarlo Pellizzari	GPellizzariImplementingXBRLCross-borderBankingGroupEurope.ppt	XBRL for Belgian supervisory banking reporting
14	25/6/2009	Harmonisation topics in COREP/FINREP.	Derek De Brandt	COREP_FINREP_HarmonisationTopics_2009.pdf ²⁸	19 th XBRL Conference ²⁹
15	19/11/2009	Architecture Strategy.	Victor Morilla	VMorilla_EurofilingArchitecture.pptx	XI European Banking Supervisors XBRL Workshop in Vienna ³⁰
16	19/11/2009	FINREP Data Model and Matrix Schemas. ³¹	Katrin Heinze, Bartosz Ochocki.	KSchmehl+BOchocki_DataModelMatrixSchemas.pp	XI European Banking Supervisors XBRL Workshop in Vienna
17	8/12/2009	Data Points Structure Explanatory Documentation	Eurofiling	DataPointsStructureExplanatoryDocumentation20091208v02.pdf ³²	
18	27/1/2010	Data Point Model and taxonomy of BSI-MIR for European System of Central Banks. ³³	Contribution of Bank of Spain		BSI-MIR Taxonomies. Eurofiling.
19	22/4/2010	Harmonization of COREP/FINREP frameworks: notation and best practices.	Ignacio Boixo.	IBoixo_Harmonization.ppt ³⁴	XII European Banking Supervisors XBRL Workshop, 23 rd April 2010, Rome. ³⁵
20	22/4/2010	FINREP COREP architectural issues	Bartosz Ochocki and Victor Morilla	VMorilla+BOchocki_ArchitectureIssues.pptx ³⁶	XII European Banking Supervisors XBRL Workshop, 23 rd April 2010, Rome. ³⁷
21	12/7/2010	CX-105 Eurofiling Framework Taxonomy Architecture. Rev.2.	Eurofiling	EFTA_20100712.pdf ³⁸	Work document.
22	24/11/2010	Common dictionary, releases & rendering	Victor Morilla	VMorilla_CommonDictionaryReleasesRendering.pptx ³⁹	XIII European Banking Supervisors XBRL Workshop. Luxembourg, 24 th -25 th November 2010 ⁴⁰

²² http://www.eurofiling.info/8th_workshop/8th_Workshop.shtml.

²³ http://www.eurofiling.info/corepTaxonomy/descriptions/readme_matrix_schema.pdf.

²⁴ This document contains information useful to understand "matrix schemas" published on www.corep.info web site for every COREP and FINREP template taxonomies.

²⁵ http://eurofiling.info/portal/wp-content/uploads/20080930_CEBS-IX_XBRLFSE-at-Fortis.pdf.

²⁶ http://www.eurofiling.info/9th_workshop/9th_Workshop.shtml, <https://slidetodoc.com/ix-european-banking-supervisors-xbrl-workshop-paris-29/>.

²⁷ http://www.eurofiling.info/9th_workshop/9th_Workshop.shtml, <https://slidetodoc.com/ix-european-banking-supervisors-xbrl-workshop-paris-29/>.

²⁸ http://eurofiling.info/portal/wp-content/uploads/COREP_FINREP_HarmonisationTopics_2009.pdf.

²⁹ <http://archive.xbrl.org/19th/en/conference/about.html>.

³⁰ http://www.eurofiling.info/11th_workshop/11th_Workshop.shtml.

³¹ http://www.eurofiling.info/11th_workshop/11th_Workshop.shtml.

³²

<http://www.eurofiling.info/finrepTaxonomy/taxonomy/DataPointsStructureExplanatoryDocumentation20091208v02.pdf>.

³³ <http://www.eurofiling.info/bsi-mirTaxonomies/taxonomy.shtml>.

³⁴ http://www.eurofiling.info/12th_workshop/presentations/IBoixo_Harmonization.ppt.

³⁵ http://www.eurofiling.info/12th_workshop/index.shtml.

³⁶ http://www.eurofiling.info/12th_workshop/presentations/VMorilla+BOchocki_ArchitectureIssues.pptx.

³⁷ http://www.eurofiling.info/12th_workshop/index.shtml.

³⁸ http://www.eurofiling.info/finrepTaxonomy/taxonomy/EFTA_20100712.pdf.

Number	Date	Title	Author or Authors	Name or the file	Comments
23	24/11/2010	Data Model & FINREP Rev 2 Taxonomy.	Bartosz Ochocki and Michal Skopowski.	BOchocki+MichalSkopowski_DataModel-FINREPTaxonomy.pdf ⁴¹	XIII European Banking Supervisors XBRL Workshop. Luxembourg, 24 th -25 th November 2010 ⁴²
24	31/12/2010	COREP Ongoing intermediate release. ⁴³	Eurofiling		Work documents
25	30/3/2011	COREP/FINREP Data Model.	Bartosz Ochocki and Michal Skopowski.	BOchocki+MSkopowski_CorepFinrepBsiMirDataModels.pdf ⁴⁴	XIV Eurofiling Workshop 30 th -31 st March 2011 EBA HQ, Tower 42, London, UK ⁴⁵
26	30/3/2011	Evolution on Methodology and Standards in Eurofiling.	Victor Morilla	VMorilla_EvolutionMethodologyStandardsEurofiling.ppt ⁴⁶	XIV Eurofiling Workshop 30 th -31 st March 2011 EBA HQ, Tower 42, London, UK
27	7/5/2011	XBRL and the Multidimensional Data Model	Ignacio Santos and Elena Castro	33990.pdf ⁴⁷	7 th International Conference on Web Information Systems and Technologies, WEBIST 2011 ⁴⁸ , pages 161-164, Noordwijkerhout, he Netherlands, May 6 th -9 th , 2011. DOI: 10.5220/0003399001610164
28	1/6/2011	Data modelling and ExcelXBRLGen (Excel Add-In)	Eurofiling	EurofilingWebinar20110713.pdf ⁴⁹	XBRL WEEK in Frankfurt, 2016. ⁵⁰
29	12/6/2011	Proof-of-concept sample Eurofiling data modelling and taxonomy architecture	Bartosz Ochocki	EurofilingProofOfConcept.pptx ⁵¹	Work documents
30	23/6/2011	Data Modelling in the EBA context. Introductory explanations.	XBRL Operational Network	CS-062_Data_Modelling.pdf ⁵²	Work documents
31	9/11/2011	XBRL Interoperability through a Multidimensional Data Model.	Ignacio Santos and Elena Castro	201122L012.pdf ⁵³ and IADIS2011_presentation_Opeinfiling.pdf ⁵⁴	IADIS International Conference on Internet Technologies & Society (ITS 2011) ⁵⁵ . Shanghai, China, December 8 th -10 th , 2011.
32	1/1/2012	XBRL and Integrated Reporting: The Spanish Accounting Association	Javier Mora González and Maria Mora Rodríguez	XBRL_in_practice_XBRL_and_Integrated_Reporting_The.pdf ⁵⁶	The International Journal of Digital Accounting Research 12 DOI:10.4192/1577-8517-12_3

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http://www.eurofiling.info/13th_workshop/presentations/VMorilla_%20CommonDictionaryReleasesRendering.pptx.

⁴⁰ http://www.eurofiling.info/13th_workshop/.

⁴¹ http://www.eurofiling.info/13th_workshop/presentations/BOchocki+MichalSkopowski_DataModel-FINREPTaxonomy.pdf.

⁴² http://www.eurofiling.info/13th_workshop/.

⁴³ <http://www.eurofiling.info/corepTaxonomy/taxonomy2012.shtml>.

⁴⁴

http://www.eurofiling.info/14th_workshop/presentations/BOchocki+MSkopowski_CorepFinrepBsiMirDataModels.pdf.

⁴⁵ http://www.eurofiling.info/14th_workshop/index.shtml.

⁴⁶ <https://slidetodoc.com/evolution-of-methodology-and-standards-in-eurofiling-vctor/>.

⁴⁷ <https://www.scitepress.org/Papers/2011/33990/33990.pdf>.

⁴⁸ <http://www.webist.org/WEBIST2011/>.

⁴⁹ <http://www.openfiling.info/wp-content/uploads/data/EurofilingWebinar20110713.pdf>.

⁵⁰ <http://minutes.eurofiling.info/2016/06/05/presentations-of-the-xbrl-week-in-frankfurt-2016/>.

⁵¹ <http://www.eurofiling.info/finrepTaxonomy/taxonomy2012.shtml>.

⁵² http://www.eurofiling.info/documents/CS-062_Data_Modelling.pdf.

⁵³ <http://www.iadisportal.org/digital-library/mdownload/xbrl-interoperability-through-a-multidimensional-data-model>.

⁵⁴ http://www.openfiling.info/wp-content/uploads/data/IADIS2011_presentation_Opeinfiling.pdf.

⁵⁵ <http://www.iadisportal.org/internet-technologies-and-society-2011-proceedings>.

⁵⁶ <https://www.researchgate.net/profile/Maria-Mora>

[51/publication/272715622_XBRL_in_practice_XBRL_and_Integrated_Reporting_The_Spanish_Accountin](https://www.researchgate.net/publication/272715622_XBRL_in_practice_XBRL_and_Integrated_Reporting_The_Spanish_Accountin)

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		Taxonomy approach			
33	22/3/2012	Eurofilings - Modelling taxonomies using DPM.	Andreas Weller, EBA	TSMT9AndreasWeller.pdf ⁵⁷	The 24th XBRL International Conference. 9th XBRL Europe Day, XBRL week in Madrid
34	22/3/2012	EIOPA methodology for architecting the taxonomies.	Eric Jarry, EIOPA, ACP – Bank of France.	TSMT10EricJarry.pdf ⁵⁸	The 24th XBRL International Conference. 9th XBRL Europe Day, XBRL week in Madrid
35	3/5/2012	The Data Point Model methodology in the European Supervision: COREP/FINREP	Ignacio Boixo	DataPointModelMethodologyIB.pdf, DataPointModelMethodologyIB.pptx ⁵⁹	24th World Continuous Auditing and Reporting Symposium "XBRL Coming of Age". Malatya / Turkey ⁶⁰
36	31/5/2012	Insurance and Solvency II approach in XBRL	Eric Jarry	EricJarry-XBRLSolvencyIIApproach.ppt	15th Eurofiling workshop Madrid
37	31/5/2012	Roadmap for the implementation of the new COREP and FINREP in XBRL	Andreas Weller	documen.site_andreas-weller-head-of-it-eba.pdf	XBRL week in Madrid. 9th XBRL Europe Day. 15th Eurofiling workshop, XBRL week in Madrid ⁶¹
38	1/6/2012	Proposal for an international Data Point Methodology	Anselmo Díaz	AnselmoDiaz-Welcome.pdf	15th Eurofiling workshop, XBRL week in Madrid ⁶²
39	1/6/2012	ExGen - XBRL Taxonomy Generator	Renata Fiedura	RenataFiedura-ExGen.pdf	15th Eurofiling workshop, XBRL week in Madrid ⁶³
40	1/6/2012	DPM Architect for XBRL: Computer Aided Design of Financial Models.	Borja Roig, Victor Morilla.	VictorMorillaBorjaRoig-DPMArchitect.pptx	15th Eurofiling workshop, XBRL week in Madrid ⁶⁴ . Technical & Training Track
41	1/6/2012	Practical use of Dimensions, Formulae and Data Point Modelling in Integrated Reporting Taxonomy (IS-FESG).	María Mora	MariaMora-IntegratedReporting.pptx	15th Eurofiling workshop, XBRL week in Madrid ⁶⁵
42	1/8/2012	Supervising Models: XBRL and Data Point Model	Michal Piechocki	iBR_AUG12_DPM.pdf ⁶⁶	International Business Review (IBR), vol 02, issue 03, August 2012
43	19/10/2012	Webinar about solvency II DPM and PoC	EIOPA ⁶⁷	https://youtu.be/A5QddjxJ0iE	EIOPA
44	19/10/2012	EIOPA's webinar presenting the Solvency II DPM Annotated Templates ⁶⁸		2012-10-19 EIOPA XBRL Webinar Seminar.pdf	EIOPA
45	20/12/2012	Abstract description of the model represented in taxonomies following the DPM approach	EBA	DPM-Formal-Model.pdf	EBA
46	20/12/2012	Representation in XBRL of the Data Point Model	EBA	EBA-DPM-XBRL-Mapping.pdf	EBA

[g Association Taxonomy approach/links/5f973559458515b7cfa16aff/XBRL-in-practice-XBRL-and-Integrated-Reporting-The-Spanish-Accounting-Association-Taxonomy-approach.pdf](http://www.association-taxonomy-approach/links/5f973559458515b7cfa16aff/XBRL-in-practice-XBRL-and-Integrated-Reporting-The-Spanish-Accounting-Association-Taxonomy-approach.pdf).

⁵⁷ <http://archive.xbrl.org/24th/>,

<http://archive.xbrl.org/24th/sites/24thconference.xbrl.org/files/TSMT9AndreasWeller.pdf>.

⁵⁸ <http://archive.xbrl.org/24th/sites/24thconference.xbrl.org/files/TSMT10EricJarry.pdf>.

⁵⁹ <http://www.eurofiling.info/documents/DataPointModelMethodologyIB.pdf>.

⁶⁰ <http://raw.rutgers.edu/24wcars.html>.

⁶¹ http://www.eurofiling.info/15th_workshop/.

⁶² http://www.eurofiling.info/15th_workshop/.

⁶³ http://www.eurofiling.info/15th_workshop/.

⁶⁴ http://www.eurofiling.info/15th_workshop/.

⁶⁵ http://www.eurofiling.info/15th_workshop/.

⁶⁶ http://www.eurofiling.info/data/documents/iBR_AUG12_DPM.pdf

⁶⁷ *European Insurance and Occupational Pensions Authority*. <https://www.eiopa.europa.eu/>.

⁶⁸ <http://www.eurofiling.info/solvencyII/2012-10-19%20EIOPA%20XBRL%20Webinar%20Seminar.pdf>.

Number	Date	Title	Author or Authors	Name or the file	Comments
47	10/12/2013	EBA CRDIV and COREP/FINREP	Andreas Weller, EBA	20131210EBAharmonizationAndreasWeller.pptx ⁶⁹	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ⁷⁰
48	10/12/2013	EBA Data Point Model	Carlos Martins, EBA	20131210EBADPMCCarlosMartins.ppt ⁷¹	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ⁷²
49	10/12/2013	CRD IV to the XBRL Taxonomy Technical Topics	Owen Jones, EBA	20131210EBAtaxonomiesOwenJones.pptx ⁷³	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ⁷⁴
50	10/12/2013	DPM to Databases	Ignacio Santos	20131210MappingDPMIgnacioSantos.pdf ⁷⁵	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ⁷⁶ . 2 th December 2013 ⁷⁷
51	10/12/2013	EIOPA Eurofiling day	Pierre-Jean Vouette and Aitor Azcoaga. EIOPA	20131210EIOPAVouetteAzcoaga.pptx ⁷⁸	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ⁷⁹
52	10/12/2013	CEN XBRL Filing Rules	Katrin Heinze, Roland Hommes	20131210FilingRules.pdf ⁸⁰	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ⁸¹
53	10/12/2013	CWA1: DPM Meta model	Katrin Heinze, Bundesbank	20131210DPMmetamodelKatrinHeinze.pptx ⁸²	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ⁸³
54	10/12/2013	How understand a DPM	Michal Skopowski	20131210understandDPMMichalSkopowski.pptx ⁸⁴	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ⁸⁵
55	10/12/2013	EBA Taxonomy and DPM Architect	Owen Jones, EBA	20131210TaxonomyOwenJones.pptx ⁸⁶	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ⁸⁷
56	10/12/2013	Expressing business checks - BCDL - Business Checks Description Language	Eric JARRY. Banque de France	20131210BCDLEricJarry.pdf ⁸⁸	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ⁸⁹
57	10/12/2013	Formula Meta Description	Piotr Malczak	20131210FMDPiotrMalczak.pdf ⁹⁰	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ⁹¹
58	10/12/2013	Tutorial: Data Point Model guidelines	Anna-Maria Weber, Bundesbank	20131210DPMguidelinesAnnaMariaWeber.pdf ⁹²	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ⁹³
59	10/12/2013	"To XBRL or not to XBRL", Discussion Panel	Dr. Maciej Piechocki	20131210ToXBRLorNotMaciejPiechocki.pdf ⁹⁴	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ⁹⁵

⁶⁹ <http://www.eurofiling.info/201312/presentations/20131210EBAharmonizationAndreasWeller.pptx>.

⁷⁰ <http://www.eurofiling.info/201312/index.shtml>.

⁷¹ <http://www.eurofiling.info/201312/presentations/20131210EBADPMCCarlosMartins.ppt>.

⁷² <http://www.eurofiling.info/201312/index.shtml>.

⁷³ <http://www.eurofiling.info/201312/presentations/20131210EBAtaxonomiesOwenJones.pptx>.

⁷⁴ <http://www.eurofiling.info/201312/index.shtml>.

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60	10/12/2013	Handbook and Guide from CEN	Aitor Azcoaga, Pablo Navarro	20131210CWA3HandbookAitorAzcoaga.ppt ⁹⁶ ; 20131210CWA3RollOutGuideAitorAzcoaga.ppt ⁹⁷	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ⁹⁸
61	10/12/2013	CEN/WS XBRL, Overview	Ignacio Boixo	20131210CENwsXBRLIgnacioBoixo.pptx ⁹⁹	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ¹⁰⁰
62	10/12/2013	CEN/WS XBRL Kick-off meeting, CWA1 deliverables	Katrin Heinze	20131210CWA1KatrinHeinze.ppt ¹⁰¹	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ¹⁰²
63	10/12/2013	CEN/WS XBRL: Improving transparency in financial and business reporting. CWA2 final deliveries.	Emile Bartolé	20131210CWA2EmileBartole.ppt ¹⁰³	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ¹⁰⁴
64	10/12/2013	CEN/WS XBRL. CWA3 Standardized roll-out package part 1: XBRL Supervisory Roll-out guide. CWA3 Standardized roll-out package. Part 2: XBRL Handbook for Declarers.	Aitor Azcoaga Pablo Navarro	20131210CWA3HandbookAitorAzcoaga.ppt ¹⁰⁵ ; 20131210CWA3RollOutGuideAitorAzcoaga.ppt ¹⁰⁶	XBRL week in Luxembourg. 18 th Eurofiling Workshop. Monday 9 th to Thursday 12 th December 2013 ¹⁰⁷
65	11/12/2013	Workshop Agreement CWA	CEN/WS XBRL	http://cen.eurofiling.info/	CEN/WS XBRL ¹⁰⁸
66	11/12/2013	Improving transparency in financial and business reporting — Harmonisation topics — Part 1: European data point methodology for supervisory reporting ¹⁰⁹	Some authors	CWA_XBRL_WI001-1-E.pdf ¹¹⁰	CEN WS XBRL public as European Standards. Published CWAs
67	11/12/2013	Improving transparency in financial and business reporting — Harmonisation topics — Part 2: Guidelines for data point modelling ¹¹¹	Some authors	CWA_XBRL_WI001-2-E.pdf ¹¹²	CEN WS XBRL public as European Standards. Published CWAs
68	11/12/2013	Improving transparency in financial and business reporting —	Some authors	CWA_XBRL_WI001-3-E.pdf ¹¹⁴	CEN WS XBRL public as European Standards. Published CWAs

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		Harmonisation topics — Part 3: European XBRL Taxonomy Architecture ¹¹³			
69	11/12/2013	Improving transparency in financial and business reporting — Harmonisation topics — Part 4: European Filing Rules ¹¹⁵	Some authors	CWA_XBRL_WI001-4-E.pdf ¹¹⁶	CEN WS XBRL public as European Standards. Published CWAs
70	11/12/2013	Improving transparency in financial and business reporting — Harmonisation topics — Part 5: Mapping between DPM and MDM ¹¹⁷	Some authors	CWA_XBRL_WI001-5-E.pdf ¹¹⁸	CEN WS XBRL public as European Standards. Published CWAs
71	12/12/2013	EIOPA Update	Pierre-Jean Vouette	20131211-12thXEUDayPresEIOPAPierreJeanVouette.pptx	XBRL week in Luxembourg. 12 th XBRL EU Day. Monday 9 th to Thursday 12 th December 2013 ¹¹⁹
72	12/12/2013	EBA COREP and FINREP. Harmonization for Europe	Andreas Weller, Head of IT EBA	20131211-12thXEUDayPresEBAAndreasWeber.pptx ¹²⁰	XBRL week in Luxembourg. 12 th XBRL EU Day. Monday 9 th to Thursday 12 th December 2013 ¹²¹
73	12/12/2013	XII Evolutions	John Turner	20131211-12thXEUDayPresXIIJohnTurner.ppt ¹²²	XBRL week in Luxembourg. 12 th XBRL EU Day. Monday 9 th to Thursday 12 th December 2013 ¹²³
74	12/12/2013	EU Adoption Committee update	Dave Van den Ende	20131211-12thXEUDayPresXEUDaveVandenEnde.pptx ¹²⁴	XBRL week in Luxembourg. 12 th XBRL EU Day. Monday 9 th to Thursday 12 th December 2013 ¹²⁵
76	12/12/2013	COREP, FINREP, S2 Harmonisation	Derek De Brandt	20131211-12thXEUDayPresXEUDerekDeBrandt.pptx ¹²⁶	XBRL week in Luxembourg. 12 th XBRL EU Day. Monday 9 th to Thursday 12 th December 2013 ¹²⁷
77	7/5/2014	DPM Architect: status and next steps	Bartrosz Ochocki and Victor Morilla	20140505DPMStatusBartroszOchockiVictorMorilla.pptx ¹²⁸	13 th XBRL EU Day & 19 th Eurofiling Workshop ¹²⁹
78	24/11/2014	DPM tutorial	Michal Skopowski and Marek Wlodarczak	20141124DPMTutorialMichalSkopowski-MarekWlodarczak.pdf	14 th XBRL EU Day and 20 th Eurofiling Workshop. XBRL week in Brussels ¹³⁰
79	26/11/2014	DPM as ISO standard	Michal Piechocki	20141126DPMAsISOStandardMichalPiechocki.pdf ¹³¹	14 th XBRL EU Day and 20 th Eurofiling Workshop. XBRL week in Brussels ¹³²
80	26/11/2014	Formal Validation of Data Point Models	Ignacio Santos and	20141126FormalValidationDataPointMod	14 th XBRL EU Day and 20 th Eurofiling Workshop. XBRL week in

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			Abel Nieto-Cano	els IgnacioSantosAbelNietoCano.pdf	Brussels ¹³³
81	21/5/2015	XBRL South Africa Standard	XBRL SA	BR-AG_XBRL_SA_Standard_Architecture_Document_-_PUBLIC_DRAFT_V1_01.pdf ¹³⁴	Work document.
82	1/6/2015	Introduction to DPM	Marek Włodarczak	20150601IntroductionDPM.pdf ¹³⁵	DPM tutorial, 15 th XBRL EU Day & 21 st Eurofiling Workshop. XBRL week in Madrid ¹³⁶
83	3/6/2015	Validation of the DPM and database implementation	Ignacio Santos and Abel Nieto-Cano	20150603ValidationDPM.pdf ¹³⁷	15 th XBRL EU Day & 21 st Eurofiling Workshop. XBRL week in Madrid ¹³⁸
84	3/6/2015	DPM Architect for NCAs: extending / creating taxonomies and validation rules	Victor Morilla	20150603DPMArchitectNCAs.pdf	15 th XBRL EU Day & 21 st Eurofiling Workshop. XBRL week in Madrid ¹³⁹
85	1/4/2016	XBRL Formula Specification in the Multidimensional Data Model	Ignacio Santos, Elena Castro, and Manuel Velasco	Paper ¹⁴⁰	Journal: Information Systems, volume 57, April 2016, pages 20–37. Doi:10.1016/j.is.2015.11.001
86	30/5/2016	XBRL Tool for Undertakings (T4U)	EIOPA ¹⁴¹	T4U Workshop Presentations (30 May 2016).pdf ¹⁴²	XBRL Tool for Undertakings (T4U) ¹⁴³
87	2/6/2016	Mapping between the formulas XBRL and the Multidimensional Data Model.	Ignacio Santos	14_MappingBetweenFormulasXBRLMultidimensionalDataModel.pdf ¹⁴⁴	XBRL WEEK in Frankfurt, 2016. ¹⁴⁵ Academic Track
88	3/6/2016	Technical Track	Bartosz Ochocki and Karol Minczyn	2016-06-03 TUTORIALS.pdf ¹⁴⁶	XBRL WEEK in Frankfurt, 2016. ¹⁴⁷
89	3/6/2016	Solvency II Status and roadmap on XBRL reporting	Marjan Trobina and Aitor Azcoaga	2016-06-02 11h15 EIOPA update for Eurofiling.pdf ¹⁴⁸	XBRL WEEK in Frankfurt, 2016. ¹⁴⁹
90	3/6/2016	Central Bank of Ireland – Insurance National Specific Template Taxonomy	Michael Healy and Barry Murray	2016-06-02 14h00 Central_Bank_Ireland_Eurofiling_NST_Presentation-ReallyFinal.pdf ¹⁵⁰	

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91	17/11/2016	Architecting trusted open data ecosystems: Interoperability of data standards, technologies and methodologies	Michal Piechocki	XBRL_Espana_2016-Michal_Piechocki_Frankfurt_Group.pdf ¹⁵¹	Risk Management, Interoperability and Information Standardization ¹⁵²
92	21/3/2017	Overview of international experiences with data standards and identifiers applicable for big data analysis	Michal Piechocki	ifcb44c.pdf ¹⁵³	IFC – Bank Indonesia Satellite Seminar on “Big Data” on 21 March 2017 ¹⁵⁴
93	6/6/2017	DPM Tutorial	Marek Włodarczak and Paweł Martyniuk	TT_8_DataPointModelling.pdf ¹⁵⁵	Eurofiling XBRL week in Frankfurt. ¹⁵⁶ 6-7-8-9 JUNE 2017
94	8/6/2017	Validation of structured reports using Model Driven Architecture (MDA), proof of concept in the Platform Independent Model (PIM)	Ignacio Santos	13-Santos-Validation.pdf ¹⁵⁷	Eurofiling XBRL week in Frankfurt. ¹⁵⁸ 6-7-8-9 JUNE 2017. Academic Track – XBRL week 2017 ¹⁵⁹
95	8/6/2017	DPM Architect – Relational Database Back-End	Miguel Morales	Efp_11_DPM_Architect_RelationalDB_EurofilingXBRL_2017.pdf ¹⁶⁰	Eurofiling XBRL week in Frankfurt. ¹⁶¹ 6-7-8-9 JUNE 2017.
96	17/4/2018	Cooperation with the European Banking Authority (EBA) on 2019 Resolution Reporting	SRB ¹⁶²	Cooperation with the European Banking Authority (EBA) on 2019 Resolution Reporting ¹⁶³	Work document.
95	1/6/2018	EIOPA Solvency II DPM Documentation	EIOPA ¹⁶⁴	EIOPA_DPM_Documentation_2.3.0_PWD.pdf ¹⁶⁵	Work document.
98	16/8/2019	Paradigms for modern statistical data frameworks and systems	Michal Piechocki	1_piechocki.pdf ¹⁶⁶	BIS IFC Satellite Seminar Post-crisis data landscape: micro data for the macro world ¹⁶⁷ . 16 August 2019, Kuala Lumpur, Malaysia
99	1/3/2020	EBA DPM 3.0. Insights and Impacts	Chris Ross and Sebastian Gillet	Regulatory-Reporting-Impacts-and-Insights-for-The-Data-Point-Model-3.0.pdf ¹⁶⁸	Reply Avantage ¹⁶⁹ . Work Document
100	25/9/2020	Data point modelling as future ISO standard for financial	Ignacio Boixo, Javier Mora.	5.4_IgnacioBoixo-JavierMora_Data point modelling as future ISO	48 th World Continuous Auditing and Reporting Symposium ¹⁷¹

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		big data		standard for financial big data.pptx ¹⁷⁰	
101	22/10/2020	Data Point Model Models and Evolution	Michal Piechocki	DPM_2_MichalPiechocki.pdf ¹⁷²	Eurofiling Online Conferences 2020. Data Point Model. Oct 22. ¹⁷³
102	22/10/2020	Experiences with DPM in a Supervisor	Javier Mora	DPM_3_JavierMora.pdf ¹⁷⁴	Eurofiling Online Conferences 2020. Data Point Model. Oct 22. ¹⁷⁵
103	22/10/2020	Experiences with DPM in Finland	Elina Koskentalo	DPM_4_ElinaKoskentalo.pdf ¹⁷⁶	Eurofiling Online Conferences 2020. Data Point Model. Oct 22. ¹⁷⁷
104	22/10/2020	DPM Refit Project	Carlos Martins	DPM_5_CarlosMartins.pdf ¹⁷⁸	Eurofiling Online Conferences 2020. Data Point Model. Oct 22. ¹⁷⁹
105	22/10/2020	DPM Architect tool	Javier Rojas	DPM_7_JavierRojas.pdf ¹⁸⁰	Eurofiling Online Conferences 2020. Data Point Model. Oct 22. ¹⁸¹
106	22/10/2020	Arelle open source xbrl platform for DPM	Herm Fischer	DPM_8_HermFischer.pdf ¹⁸²	Eurofiling Online Conferences 2020. Data Point Model. Oct 22. ¹⁸³
107	22/10/2020	DPM as published European CWA Standard	Ignacio Boixo and Ignacio Santos	DPM_9_BoixoSantos.pdf ¹⁸⁴	Eurofiling Online Conferences 2020. Data Point Model. Oct 22. ¹⁸⁵
108	4/9/2020	Life Cycle of Software Development Design in European Structured Economic Reports	Ignacio Santos, Elena Castro, Dolores Cuadra and Harith Aljumaily	Paper and Posters ¹⁸⁶	Proceedings of the 16th International Conference on Web Information Systems and Technologies. November 3 - 5, 2020. ¹⁸⁷ DOI:10.5220/0009954001590169
109	1/7/2021	Improving transparency in financial and business reporting — Harmonization topics — Part 1: European data point methodology for supervisory reporting. ¹⁸⁸	ISO/TC 68/SC 9. Information exchange for financial services		ISO 5116-1:2021
110	1/7/2021	Improving transparency in financial and business reporting — Harmonization topics — Part 2: Guidelines for data point modelling. ¹⁸⁹	ISO/TC 68/SC 9. Information exchange for financial services		ISO 5116-2:2021
111	1/7/2021	Improving transparency in financial and business reporting — Harmonization topics	ISO/TC 68/SC 9. Information exchange for financial services		ISO 5116-3:2021

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¹⁸⁹ <https://www.iso.org/standard/80944.html>.

Number	Date	Title	Author or Authors	Name or the file	Comments
		— Part 3: Mapping between DPM and MDM. ¹⁹⁰			
112	19/8/2021	DPM data dictionary	EBA ¹⁹¹	DPM data dictionary ¹⁹²	Work document.
113	19/8/2021	Data Point Model (DPM)	EBA ¹⁹³	Data Point Model (DPM) ¹⁹⁴	Work document.
114	19/8/2021	Reporting framework 3.0	EBA ¹⁹⁵	Reporting framework 3.0 ¹⁹⁶	Work document.
115	19/8/2021	Data Point Model and Taxonomies for Implementing Technical Standard (ITS) on Supervisory Reporting	EBA ¹⁹⁷	Data Point Model and Taxonomies for Implementing Technical Standard (ITS) on Supervisory Reporting ¹⁹⁸	Work document.
116	19/8/2021	Supervisory reporting - DPM and XBRL	EIOPA ¹⁹⁹	Supervisory reporting - DPM and XBRL ²⁰⁰	Work document.
117	19/8/2021	Supervisory reporting - DPM and XBRL	EIOPA ²⁰¹	Supervisory reporting - DPM and XBRL ²⁰²	Work document.
118	19/8/2021	Data Point Model and XBRL	EIOPA ²⁰³	Data Point Model and XBRL ²⁰⁴	Work document.
119	19/8/2021	EIOPA DPM Documentation	EIOPA ²⁰⁵	EIOPA_DPM_Documentation_2.5.0.pdf ²⁰⁶	Work document.
120	19/8/2021	Reporting format (DPM and XBRL)	EIOPA ²⁰⁷	Reporting format (DPM and XBRL) ²⁰⁸	Work document.
121	19/8/2021	Taxonomy versions in Bank of Israel	Bank of Israel ²⁰⁹	Taxonomy versions in Bank of Israel ²¹⁰	Work document.

4. Comments and further work

This collection was prepared by Ignacio Santos, PhD, and review by Ignacio Boixo.

Questions and comments are welcome at: info@eurofiling.info

See the status of the DPM evolution and the call for volunteers at: <https://eurofiling.info/portal/dpm-published-as-official-iso-5116-standard/>

¹⁹⁰ <https://www.iso.org/standard/80945.html>.

¹⁹¹ European Banking Authority. <https://www.eba.europa.eu/>.

¹⁹² <https://www.eba.europa.eu/risk-analysis-and-data/dpm-data-dictionary>.

¹⁹³ European Banking Authority. <https://www.eba.europa.eu/>.

¹⁹⁴ <https://www.eba.europa.eu/regulation-and-policy/supervisory-reporting/data-point-model-dpm->

¹⁹⁵ European Banking Authority. <https://www.eba.europa.eu/>.

¹⁹⁶ <https://www.eba.europa.eu/risk-analysis-and-data/reporting-frameworks/reporting-framework-3.0>.

¹⁹⁷ European Banking Authority. <https://www.eba.europa.eu/>.

¹⁹⁸ <https://www.eba.europa.eu/regulation-and-policy/supervisory-reporting/implementing-technical-standard-on-supervisory-reporting-data-point-model->

¹⁹⁹ European Insurance and Occupational Pensions Authority. <https://www.eiopa.europa.eu/>.

²⁰⁰ https://www.eiopa.europa.eu/tools-and-data/supervisory-reporting-dpm-and-xbrl_en.

²⁰¹ European Insurance and Occupational Pensions Authority. <https://www.eiopa.europa.eu/>.

²⁰² https://www.eiopa.europa.eu/tools-and-data/supervisory-reporting-dpm-and-xbrl_en.

²⁰³ European Insurance and Occupational Pensions Authority. <https://www.eiopa.europa.eu/>.

²⁰⁴ <https://register.eiopa.europa.eu/regulation-supervision/insurance/reporting-format/data-point-model-and-xbrl>.

²⁰⁵ European Insurance and Occupational Pensions Authority. <https://www.eiopa.europa.eu/>.

²⁰⁶ https://dev.eiopa.europa.eu/Taxonomy/Full/2.5.0/Common/EIOPA_DPM_Documentation_2.5.0.pdf.

²⁰⁷ European Insurance and Occupational Pensions Authority. <https://www.eiopa.europa.eu/>.

²⁰⁸ <https://public.staging.eiopa.europa.eu/Pages/Supervision/Insurance/TestRss.aspx>.

²⁰⁹ <https://www.boi.org.il/en/Pages/Default.aspx>.

²¹⁰ <https://www.boi.org.il/en/BankingSupervision/SupervisorsDirectives/Pages/XBRL.aspx>.