



# EIOPA DPM Documentation

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## I Abstract

This document described the Data Point Model [DPM] defined by EIOPA to support reporting of Solvency II, Pension Funds containing an integrated and standalone PEPP Prudential Reporting (PR), Pan-European Personal Pension Products KID data and Financial Conglomerates model. It introduces the DPM terminology, presents the resulting artefacts (DPM Dictionary and Annotated Templates) and explains in detail the approach applied for data modelling.

## II Introduction

One of the aims of EIOPA is to improve harmonisation and support coherent application of rules applied for financial institutions and markets across the European Union. In order to achieve this goal a set of common legal acts has been published: the Framework Directive, the Implementing Technical Standards and the Public Guidelines. These acts define among others a set of data to be reported by the undertakings (in particular in the Reporting Templates and supporting Business Logs).

In order to facilitate the data exchange process, EIOPA decided to use an XBRL standard as a mean for technical definition of information requirements (in form of XBRL taxonomies) and as a technical data submission format (XBRL instance documents).

The Data Point Modelling methodology has emerged in the evolution process of application of the XBRL standard for financial and prudential reporting<sup>1</sup>. In the beginning and for the first few years XBRL taxonomies have been developed by the IT experts who basically translated the tabular representation of information requirements to the technical format. At some point though the maintenance and updates started to require increasing business input and the business domain experts had been more and more

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<sup>1</sup> <http://eurofiling.info/portal/data-point-model/>

involved in the process. This caused the need for definition of a formal model for description of requested data which could be provided by the data users and translated to technical format by the IT without any loss of information or space for interpretation. The resulting methodology has been called the Data Point Modelling to emphasise the shift in the approach from the form centric representation of information requirements (based on tabular views) to the data centric definitions (detailing properties of each exchanged piece of information).

Currently DPM methodology is considered as an intermediary layer between the information requirements definition in legal acts and its technical representation. Following other European supervisors (such as EBA) and some National Competent Authorities (NCAs), EIOPA decided to use this methodology to properly reflect in XBRL all relevant properties of the exchanged data.

The result of the DPM modelling process is a structured description of the model in form of a dictionary (listing and naming all breakdowns and their components identified in the process of analysing the legal acts) and a set of annotated templates (tabular views of requested data with description from the dictionary). These two documents are subsequently used as the inputs for XBRL taxonomy generation process.

The result of application of the DPM methodology shall support fulfilment of the following requirements:

- remove redundancy of metadata definitions (no duplicated data points),
- increase consistency of metadata definitions (clarity and explicitness of definitions),
- increase efficiency of data tagging and mapping (accuracy of assigning tags to data points for generation to/from existing systems),
- advance metadata maintenance procedures (change management and communication),
- facilitate non-IT technical experts' involvement (data modelling is performed by the business users),
- support data mapping procedures (manual and automatic).

With the version 2.8.0, EIOPA has introduced changes to the generation of XBRL/DPM models. As part of these modifications, the generation of the database, the XBRL taxonomy as well as the excel files has been amended. Although the DPM metamodel did not change, it was decided to modify the DPM documentation file in order to familiarise users with the new format of some files, as well as publish excel files in both versions. Differences between new and previous layout have been described in a dedicated section at the end of this document.

## III General building blocks and terminology of DPM methodology

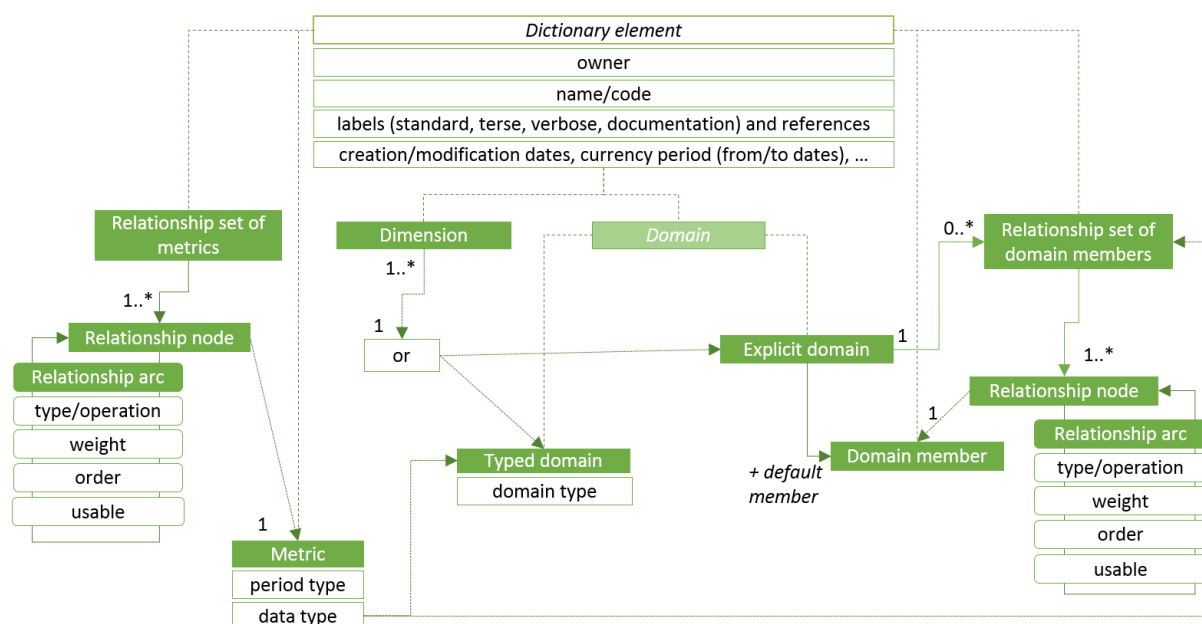
An important impact on the organization of the DPM has the process of its definition. The starting point is a set of legal acts composed of the text of regulations, guidelines, international standards and the tabular representation of the information requirements. These input materials are analysed in order to define consistent classifications (breakdowns with enumerated properties) used to categorise the content of the tables<sup>2</sup>. The main division of in the DPM is therefore a clear separation of a **dictionary** (definition of breakdowns in general) and the tabular representation of current information requirements gathered in **frameworks** (which in case of the EIOPA DPM takes form of the Annotated Templates). This is particularly important from the standpoint of maintenance. While dictionary is expected to steadily grow in time and assure backward compatibility (i.e. to support all previous versions), frameworks can change more drastically and dynamically depending on actual information requirements.

### III.1 DPM dictionary

Dictionary defines the classifications used in data description. It does it by identifying elements: metrics (that may be arranged in relationship sets), domains and their value constraints or members (plus relationships between them) and dimension as presented on Figure 1 and explained in the next paragraphs.

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<sup>2</sup> Ideally though, the process should be reversed, i.e. start with the definition of breakdowns that would subsequently be applied in description of information requirements presented in the tabular format.



**Figure 1. DPM dictionary**

Each dictionary element must have a unique (in scope of its definition<sup>3</sup>) name/code and identify an owner (authority who defined it/is responsible for its maintenance). Additionally it should have a human readable label (in one – usually English – or more languages and optionally serving different roles/purposes) and may contain other documentary properties (e.g. references to underlying legislation or guidelines, more verbose explanations, etc.). For maintenance purposes declaration of each element must contain a creation date, may include a date of last modification as well as a currency period (from and to dates) when the element is considered to be in application.

A **metric** is the minimum description of each data point (each data point in the model must include in its definition one, and only one, metric). It carries the information on the expected value (data type) and the time context (period type)<sup>4</sup>. It may include other semantics (business properties) depending on the approach taken by the author of the model.

<sup>3</sup> In general name/code must be unique for a given owner for metrics, domains and dimensions. Relationship set and members' names/codes must be unique for an owner and a domain that they belong to.

<sup>4</sup> Time context could be also carried by dimensional attributes.

Other classifications are represented by domains. A **domain** is a set of elements/values sharing a specified semantic nature. Domain can be of one of two kinds: explicit and typed. An **explicit domain** has its elements enumerated in the model while a **typed domain** values are assigned in the reports based on a specified format (data type).

Elements of an explicit domain are called domain members. A **domain member** (or simply a member) is enumerated element of an explicit domain. All members from a domain share a certain common nature defined subjectively but applied consistently by the model's author. A typical example of a domain is "Geographical areas". Members of this domain could be different areas of the Earth, classified according to the physical geography ("Europe", "Pacific Ocean", "Himalayas", ...) and/or human geography ("France", "EU", "G-20 major economies", ...). Combining physical and human geography into one domain is already the author's subjective view of the classification. The number of members in explicit domains varies from two (e.g. "Yes" and "No") to hundreds (in case of countries or currencies).

An example of a typed domain could be the ISIN identifier (used to identify uniquely financial instruments) which is restricted to a certain number of characters.

In order to document the relations between domain members or between metrics, they can be gathered in **relationship sets** (sometimes called subdomains or hierarchies). A **relationship** is constructed from nodes and arcs. A **node** refers to a metric (in relationship sets for metrics) or to a domain member (in relationship set of domain members). Nodes are arranged as directed graphs. An **arc** (edge) identifies the source node, the target node, and the order of the relation in a relationship set. It may also identify a node as used for organizational purposes only (with usable property). Arcs may also document the basic arithmetic relations by identifying the type of operation (" $\geq$ ", " $\leq$ " or " $=$ ") and weight by which the target node contributes to the value of a source node (in applications of the DPM so far constrained mainly to identification of a sign, i.e. "+1" and "-1"). In general all members of explicit domains should participate in hierarchical relationships and whenever possible, these relationships shall reflect arithmetical dependencies as presented in Table 1.

**Table 1. Example of arithmetical dependencies between domain members expressed in the DPM as a hierarchy (subdomain)**

Member	Comparison operator	Sign and weight
--------	---------------------	-----------------

Calculated as a sum of best estimate and risk margin	=	
Best estimate	=	+1
Best estimate [before adjustment for expected losses due to counterparty default]		+1
Adjustment for expected losses due to counterparty default		-1
Risk margin		+1

In some cases a hierarchy (subdomain) is defined as a flat list of members to be used in a certain scenario (e.g. applied to a particular dimension, driven by information requirements of a template or set of members referenced by an enumerated metric).

Usually hierarchies include only some members of a domain, especially when there could be alternative classifications, e.g. "Poland"/"Other than Poland" and "EU"/"Other than EU" would never form a single hierarchy as "EU" includes "Poland" plus some other countries while "Other than EU" includes "Other than Poland" minus some countries.

Hierarchies are an important part of the model as they help to maintain coherence within a domain.

In order to be used in description of information requirements a domain member or a typed domain value requires a **dimension** that provides a context of its application. In other words dimensions contextualise domain members when applied to a data point i.e. they contribute to the semantics of a member which, without a dimension, may be insufficient to represent the full meaning of a property. For instance, in case of "Geographical areas" domain, "Spain" as a member could represent "Location of an issuer" of a financial instrument, "Location of a stock exchange" where this instrument is traded, "Location of a broker" who participated as a middleman in the transaction or finally "Location of a buyer" who purchased this instrument. The same domain member "Spain" was contextualised in this example by four different dimensions. A similar situation may appear in case of a typed domain whose restriction could be different based on the dimension contextualising its value, e.g. code = 123-345-567-890 could be the "Identification number for tax purposes" or "Company registration number", where the kind/type of the number is given by the dimension.

Each dimension must be associated with a domain and may contextualize any member or value of this domain. A domain may have associated more than one dimension, in such a case a member of a domain can be contextualized with many dimensions when representing a reportable piece of information.

Explicit domain should specify a **default member** that is assumed to be applied to all dimensions referring to this domain in case they are not explicitly used in description



of the required data, i.e. these default members are implicitly applied to every data point that is not explicitly characterised by a particular dimension. For example, a dimension “Original currency” may be associated with a default member “All currencies”. This means that when a data point does not explicitly mention the “Original currency” dimension, it is assumed that it takes the “All currencies” member for this dimension.

Default members are very useful when defining the model, as otherwise every data point would have to explicitly mention each dimension and the applicable member. With default members it is enough for a data point to name only the properties that are important to distinguish this data point from other data points. Although technically in XBRL the “default” is a property of a member with respect to a dimension, the DPM assumes that all dimensions referring to a certain domain would have the same default member. This means that only one member in a domain can be assigned as a default and shall apply to all dimensions referring to this domain.

There could be dimensions in the model that do not apply to some data points. For example, a data point representing “Equity instruments” is unlikely to be linked to the “Original maturity” dimension (shares and other ownership rights usually do not have maturity). Therefore, the default member is usually named “Total/Not-applicable”.

**Data types** of metrics and typed domains are in particular: monetary, decimal, percentage, integer, Boolean, date and URI but can be further extended (by defining new data types or restricting existing data types) if needed. A metric may also be restricted to a specific type of a typed domain or to an enumerated list of members. In the latter case it refers to a relationship set of members, identifies a starting member and whether it is included in the set of allowed values. In specific cases it may also inform how many generations (children, grandchildren, ...) of members form the list of allowed values and take into account also the usable property (that may characterise the use of a member in a hierarchy merely for grouping purposes).

### III.2 DPM framework

**Framework** represents information requirements for a specified scope. Frameworks components and relations between them are presented schematically on Figure 2.

A **taxonomy** is a version of a framework, identified by a reference to the underlying legal acts (name and version of information requirements) plus a date stamp (taxonomy publication date). A taxonomy consists of one or more tables that are usually

gathered in table groups and further referenced from modules. It is possible that a taxonomy refers to and reuses tables from previous versions of a framework.

A **module** represents a set of information requirements that are supposed to be submitted in a single report. Typical factors taken into account when defining the scope of a module include:

- data nature homogeneity,
- frequency of reporting (i.e. scope of data transmitted on monthly, quarterly, yearly basis),
- subject scope (e.g. solo and consolidated data),
- accounting or other regulations impacting definitions of data.

Reporting entity classifies a report for submission according to one of modules predefined in the taxonomy.



A **table** is a graphical representation of information requirements and a format for data presentation.

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email: [xbri@eiopa.europa.eu](mailto:xbri@eiopa.europa.eu); Website: [www.eiopa.europa.eu](http://www.eiopa.europa.eu)

A **fixed axis** consists of nodes. Nodes can be concrete or referencing.

A **concrete node** is each header of a fixed axis. Nodes can be arranged in nested structures. In such a case, relationships between nodes identify ordering and the manner of presentation of child nodes before or after (for rows) or to the left or right (for columns) in relation to the parent node. Moreover a concrete node can be classified as abstract if it is included in the table merely for the purpose of organization of headers rather than a resulting in a line containing data.

A **referencing node** points to a relationship set (of metrics or domain members) in a dictionary, specifies the starting node and informs if it included in the set of selected values. The resulting visualisation converts the hierarchy nodes into concrete nodes of an axis. Referencing node is basically an alternative to explicit enumeration of concrete nodes with the benefit of reusing already defined breakdowns and also several constraints (e.g. limited customization of header titles/labels, lack of possibility of inclusion of other codes or marking of unreportable cells and unambiguous treatment of unreported data).

An **open axis** refers to a dimension (usually typed) or other aspects of facts, in particular the temporal reference, entity or unit specific information (for more details see then next section in this document). Nodes (headers) are therefore dynamically constructed based on values contained in a report. In case when a table contains more than one axis of certain kind, the resulting visualisation is a Cartesian product of nodes or values of each axis. This is typically done in so called open tables (i.e. tables with undefined number of rows, when one or more columns are row keys provided in a report) or when there are several axes multiplying the table in sheets.

A concrete node may refer to a metric, dimension member pairs or specific typed dimension values and other aspects of a fact. This reference is inherited from parent nodes to child nodes unless prohibited or overridden by a different metric or member for a given dimension.

Content of a table is additionally defined by hypercubes. A **hypercube** links metrics to dimension member pairs or typed dimensions (and their specific values if applicable). They are constructed as defined in the XBRL Dimensions specification and are technical artefacts. In DPM model reflection of a framework, such as the Annotate Templates it is enough to reflect reportable and prohibited (non-reportable) cells.

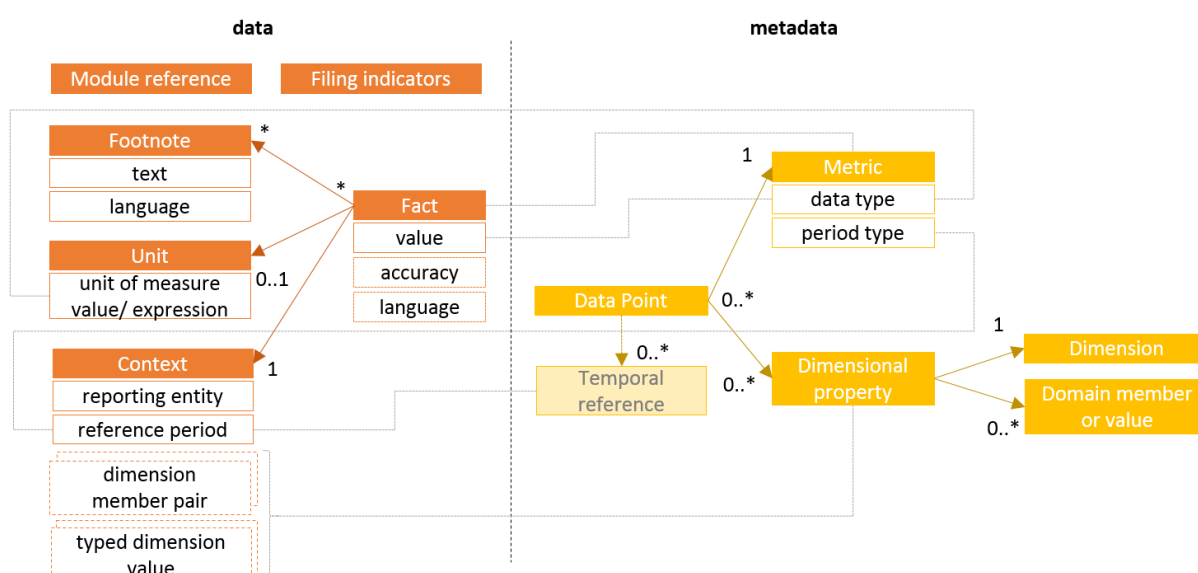
Cells in tables appear on and are described by properties (including inheritance) from intersection of row and column headers and information from the sheet (i.e.

particular multiplication of a table). Non-reportable cells (usually marked graphically as criss-crossed or grey shaded and excluded from reporting as illogical or simply unrequested) are a result superposition of the hypercubes (that define only allowed combinations) on the table visualization (based on axes and their content).

Similarly to dictionary elements, framework elements such as frameworks itself, taxonomy, module, table group, table, axis and node are identified by a code/name, human readable label and owner. Axis nodes usually also contain a code (called "rc-code") that facilitates addressing of cells in a table.

### III.3 Data point and fact

Relation between a data point and fact is schematically presented on Figure 3.



**Figure 3. Data point and fact**

A **data point** is characterised by a metric and may be further described by dimensional properties. It may also be provided a temporal reference i.e. identification of a period that is different to the default reference period of a report.

A **fact** refers to a data point by applying a metric as defined by a data point and linking to a context that contains dimensional properties corresponding to those defined by a data point.

A **context** apart from dimensional properties also contains identification of a reporting entity (using an identifier value according to the provided scheme) and a reference period that in general informs about the moment or time interval for measurement/expression of a fact value.

Non-numeric facts may contain an attribute informing about the language for its textual value.

Numeric facts contain an attribute expressing data accuracy and refer to declaration of a **unit** of measure.

**Footnotes** can provide additional textual explanation on facts.

As explained in the previous sections, a report must also identify a module based on which it was created and contain a list of filing indicators referring to reported units (table groups or tables) that are further used as preconditions for evaluations of validation rules.

## IV EIOPA Data Point Model

EIOPA Data Point Model follows the organization as presented in the previous section. However it has also many unique features that differentiate it from other existing DPMs (such as the EBA model used in banking supervision). These are in particular:

- two layers approach (MD and HD),
- significant portion of complex open tables (with unknown and potentially large number of rows) which requires simplification of their modelling in order to allow usability,
- high number of entry points (modules) reflecting various reporting scenarios,
- Excel format for definition of the model in form of the DPM Dictionary and Annotated Templates (aiming to resemble the Business Templates from the Solvency II, Pension Funds, Financial Conglomerates (FICOD) and Pan-European Personal Pension Products KID and PR legal acts),
- technical constructs applied in these Excel files in order to extract all DPM metadata in an automated manner to a structured format of a DPM database and subsequently to XBRL taxonomy syntax.

The chapter describes in detail the approach applied in the DPM modelling of Solvency II, Pension Funds, FICOD and Pan-European Personal Pension Products KID and PR information requirements.

### IV.1 Input materials: Reporting Templates and Business Logs

The main inputs for definition of the DPM model are the Reporting Templates and the Business Logs provided by EIOPA.

Reporting Templates reflect Solvency II, Pension Funds, FICOD or Pan-European Personal Pension Products KID and PR information requirements arranged in the form of tabular views while the Business Logs specify in more detail manner the requested content by giving the meaning of information described by particular rows and columns of each template.

From the data modelling perspective, they provided all necessary information for identification of the general breakdowns describing the requested data (defined in the DPM Dictionary), current reporting requirements (in the form of sets of data points represented by the DPM Annotated Templates) as well as the checks and constraints on values to be reported<sup>5</sup>.

## **IV.2 MD and HD versions of the DPM**

The main purpose of the DPM methodology is to identify each reportable piece of information (a data point) in a precise and unambiguous manner. As a result the DPM defines usually high number of dimensions. This situation has a number of advantages:

- the model is data centric and independent from the particular views of data (templates),
- each data point is classified in detailed according to all applicable characteristics that are defined separately,
- dependencies between concepts are explicit and clearly identifiable,
- supports change management (based on defining specific differences),
- applied breakdowns can be used for various purposes including data querying for analysis,
- a bridge with other reporting frameworks can be established using specific properties on each data point,
- data model is less subjective and has fewer space for arbitrary modelling decisions (e.g. if a certain property shall be included in the semantics of a metrics or represented by a dimensional property).

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<sup>5</sup> Must be noted that Annotated Templates, due to implementation assumption, could contain more information than Reporting templates (find more details in chapter V).

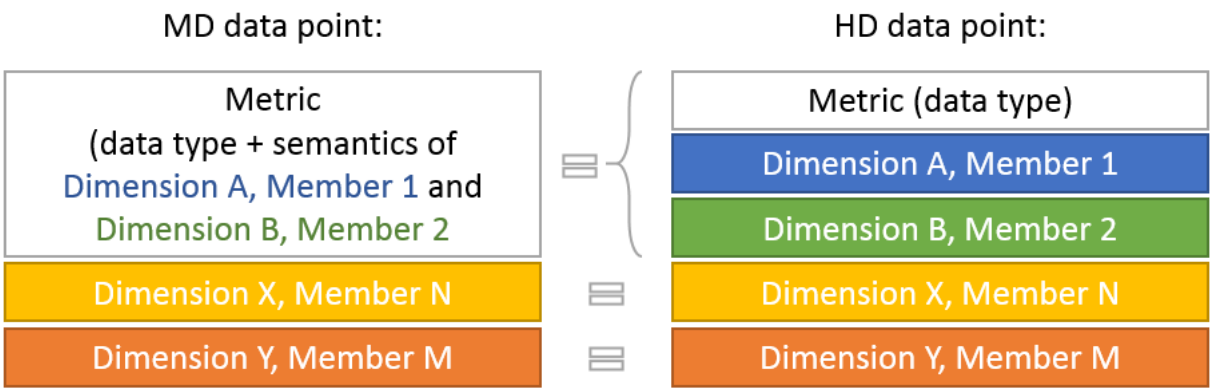
Detailed definition of each property comes however at cost of readability of a model. It also impacts the technical representation of the model in the XBRL format: instance documents are larger in terms of size and code which hinders performance of their parsing and validation. Additionally the XBRL Formula assertions require to use a high number of dimensions in order to properly filter the facts for evaluation of variables in the context of a report.

To overcome the drawbacks while maintaining of all the benefits the EIOPA DPM applies two layers for data modelling and representation:

- a Highly Dimensional (HD) approach and
- a Moderately Dimensional (MD) approach.

In HD approach the model is defined according the DPM methodology where metrics resemble the very basic properties of a data point that typically determine only its data type. In MD approach the semantics of each metric is extended by inclusion in its definition a number of dimensional properties that in the HD approach are represented by separate and independent dimension-member pairs. Decision on which properties are included in the MD metric is closely aligned with the template view of the required data set (as described in the next paragraphs of this chapter). Other dimensional properties are shared between the two approaches and applied to data points in both versions. This means that MD and HD versions resemble the same model, but MD includes some of the business properties in the definition of a metric while the HD approach keeps all business semantics as dimension-member pairs.

The relation between MD and HD data points is schematically presented in Figure 4.



**Figure 4. Schematic relation between MD and HD data points**

The DPM dictionary contains definitions of properties for both HD and MD approach. The Annotated Templates contain references to the HD components with additional



information (based on the applied font colouring convention) to allow the equivalent MD references to be derived.

The process of deriving the MD model from HD is different for closed and open templates.

For closed tables (i.e. tables with all rows and columns identified and named), the derivation process is determined by the placement of the HD metric either on rows, columns or as the table multiplication (z-axis) property. MD metrics are derived by combination of the HD metric and some of the dimensional annotations. The decision on which annotations are combined is determined by their application in all closed tables of the model. By design it is not possible to include in a metric definition an annotation that is reflected in different sections (i.e. either rows, columns, or table multiplication z-axis properties) of a table (in other words, all properties of a metric must be always defined in a single section of a table). All dimensions that must not be included in the definition of MD metrics in closed tables are marked in the DPM Dictionary as "Dimension in MD closed"<sup>6</sup>.

Open tables (i.e. tables with unknown number of rows) include three types of columns:

- a) columns which are a part of a key for unique identification of each row (and are therefore modelled as typed or explicit dimensions)<sup>7</sup>,
- b) columns which are not part of a key and are modelled as dimensions,

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<sup>6</sup> Dimensions are marked as "Dimension in MD closed" when such dimension is used on a different section (row/columns/table multiplication) than a metric in at least one of the closed tables of the model. In such case the dimension cannot be merged in the MD metric definition. This helps to avoid situations of the same data point being defined differently in the MD model (i.e. using two different MD metrics).

<sup>7</sup> In some cases, particularly when multiple columns contribute to a key (resulting in a so-called composite natural key), the DPM may include an additional property that should serve solely as a unique key (also known as an artificial key). This property is represented by a typed dimension, whose domain is a set of identifiers for rows defined by each filer in the submitted report.

- c) columns that resemble data points to be reported for each row (annotation of these columns include identification of metrics).

Columns which can be part of the key (a) or are not part of a key but are modelled as dimensions (b) are resembled in the same way in the MD version as they are in the HD version. Columns that resemble data points (c) are in MD version described as a single metric that combines information from the HD metric and all HD dimensional properties. Note that in this case the "Dimension in MD closed" property is not applicable for exclusion of certain dimensions from being included in the MD metric definition as it is very important for the XBRL file size and processing performance that all facts in a row have the same dimensional description (identified by the dimensions which are part of a key).

As a result the same data point appearing in an open and closed table of the model may be theoretically defined in a different manner in the MD approach (using a different metric that in case of open table includes some dimensional annotation in its definition while in a close table this annotation is defined separately to the metric).

In general annotations which identify a default member for a dimension should not be present in the Annotate Templates. If such case occurs that annotation would never be included in the MD metric definition.

MD metric labels are derived from the HD model by concatenating the HD metric label and those HD dimension-member pairs that are included in MD metric definition (as explained in derivation process above). These dimension-member pairs are ordered according to an algorithm (sorted alphabetically by domain code, dimension code and member label) to ensure consistency, and are separated by pipe characters ("|"). As a result, labels of MD metrics follow the general pattern:

Metric: {label of HD metric}|{dimension code}/{label of domain member}|{dimension code}/{label of domain member}|...

For example:

Metric: Monetary|TA/Maximum value|VG/Solvency II|BC/Loss|CC/Facultative

Please note that technical XBRL representation of the Solvency II, Pension Funds and Pan-European Personal Pension Products KID and PR framework components and reporting in XBRL format is made only in the MD version of the model; the HD version is defined for reference purposes only. Since 2.8.0 release a new format, containing MD

model, of excel files was introduced. FICOD model, developed after aforementioned change, is reflected solely in MD version.

### **IV.3 Structure of the Solvency II, Pension Funds, PEPP KID, PEPP PR and FICOD DPM**

There is no single predefined format for representation of the DPM. The ones commonly used is an Excel workbook (in this format the DPM is usually created and edited)<sup>8</sup>, a database (used for maintenance and quality/consistency checks) and an XBRL taxonomy (applied for reporting in XBRL). EIOPA applies all these three formats. The latter two are IT artefacts explained in separate documentations. This document focuses on description of an Excel format where the business users define the DPM.

As described in the section III of this document, a DPM consists of Dictionary and Framework. The latter can be organized for instance in a form of an Analysis Matrix, as in case of the EBA, or as Annotated Templates in case of EIOPA. Annotated Templates have several advantages over the Analysis Matrix:

- they are close to the Business Templates,
- each table is modelled at once (not by row/columns/table multiplication approach),
- it is possible to identify crossed-out cells in a single view.

The original disadvantage of the Annotated Templates was high flexibility of its structure which made it complex to develop an automated process of XBRL taxonomy development. This obstacle has been overcome in the current DPM Annotated Templates by applying named ranges and cell styles.

In order to help to trace differences in DPM Dictionary and Annotated Templates following colour convention was used:

New information. For example new entry point, template or table column.
Information changed (other than label). For example templates affected by change in modelling, remodeling of particular column or row of existing table.
Deleted information. For example removed annotation.
Label change (not affected template modelling).

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<sup>8</sup> Excel format is commonly known to the business experts developing the model and open source or inexpensive commercial tools allow editing and reviewing of its content.

EIOPA DPM Dictionary is defined in the form of an MS Excel workbook and contains the definition of the Solvency II, Pension Funds, Pan-European Personal Pension Products KID, Pan-European Personal Pension Products PR and Financial Conglomerates regimes. It consists of numerous worksheets as described below and presented on screenshot on Figure 5:

- |  | Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 |
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## Figure 5. Structure of EIOPA DPM Dictionary

Dimensions in the DPM are used not only to reflect typical breakdowns (i.e. "Currencies", "Lines of business") but certain notion of data points (e.g. "Consolidation scope") or expression of temporal characteristics ("Instant or duration").

All concepts in dictionary are described with information helpful for maintenance and versioning:

- creation date,
- validity date is the last reference date for which the concept is used in Annotated Templates<sup>10</sup>,

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<sup>10</sup> For instance in 2.8.0 release validity dates are specified as follows:

- 2013-12-31 for concepts not used in 1.5.2.c release nor in 2.0.1 release of Annotated Templates. Validity date can be earlier than creation date for concepts that were never used in production releases,

- 2015-09-30 for concepts used in 1.5.2.c release but not in 2.0.1 release of Annotated Templates,

- 2016-07-15 for concepts used in 2.0.1 release but not in 2.1.0 release of Annotated Templates,

- 2017-07-15 for concepts used in 2.1.0 release but not in 2.2.0 release of Annotated Templates,

- 2018-07-15 for concepts used in 2.2.0 release but not in 2.3.0 release of Annotated Templates,

- 2019-07-15 for concepts used in 2.3.0 release but not in 2.4.0 release of Annotated Templates,

- 2020-07-15 for concepts used in 2.4.0 release but not in 2.5.0 release of Annotated Templates,

- 2021-07-15 for concepts used in 2.5.0 release but not in 2.6.0 release of Annotated Templates,

- 2021-08-06 for concepts used in 2.6.0 release but not in 2.6.1 release of Annotated Templates,

- last modified date (i.e. date of last upgrade to the label).

#### IV.3.1.1 Domains worksheet

Domains worksheet (Figure 6) contains among others information about domains code/name, label (in English), domain type (primary, explicit or typed) and owner. Primary domain type is used for metrics. Data type is identified for typed domains.

Domain code/name	Domain label	Domain type	Owner	Prefix	Namespac	Locatic	Dataty	Creation date	Validity date	Last mod	Comment
1 met	Metrics	primary	s2c					2014-07-07			
2 BC	Basic concepts	explicit	s2c					2014-07-07			
3 MC	Main categories	explicit	s2c					2014-07-07			
4 AM	Amount types	explicit	s2c					2014-07-07			
5 VM	Valuation methods	explicit	s2c					2014-07-07			
6 DI	Instant or duration	explicit	s2c					2014-07-07			
7 TR	Treatment of risk mitigation	explicit	s2c					2014-07-07			
8 TB	Type of businesses	explicit	s2c					2014-07-07			
9 PU	Purposes of assets/portfolio	explicit	s2c					2014-07-07			
11 SE	Sectors	explicit	s2c					2014-07-07			
13 CG	Collaterals/Guarantees	explicit	s2c					2014-07-07			
14 LB	Lines of businesses	explicit	s2c					2014-07-07			
15 EL	Eligibility	explicit	s2c					2014-07-07			
16 CS	Consolidation scopes	explicit	s2c					2014-07-07			
17 CM	Controlling or minority interests	explicit	s2c					2014-07-07			
18 CU	Currencies	explicit	s2c					2014-07-07			
19 GA	Geographical areas	explicit	s2c					2014-07-07			
20 PI	Percentage intervals	explicit	s2c					2014-07-07			
21 TS	Types of string	explicit	s2c					2014-07-07			
22 LT	Types of trigger	explicit	s2c					2014-07-07			
23 TD	Types of date	explicit	s2c					2014-07-07			
24 NT	Types of number	explicit	s2c					2014-07-07			
25 BR	Brackets	explicit	s2c					2014-07-07			
26 PP	Types of percentage	explicit	s2c					2014-07-07			
27 DC	Types of decimal	explicit	s2c					2014-07-07			
28 CE	Types of income statement concepts	explicit	s2c					2014-07-07			
29 TI	Time intervals	explicit	s2c					2014-07-07			
30 RT	Risk types	explicit	s2c					2014-07-07			
31 SC	Status of claim	explicit	s2c					2014-07-07			
32 PC	Product characteristics	explicit	s2c					2014-07-07			
33 EX	Exposure types	explicit	s2c					2014-07-07			
34 AP	Approaches used	explicit	s2c					2014-07-07			
35 ID	Codes	typed	s2c				string	2014-07-07			
36 NA	Names	typed	s2c				string	2014-07-07			
37 NB	Integer numbers	typed	s2c				string	2014-07-07		2017-07-15	
38 ER	Ratings	typed	s2c				string	2014-07-07			
39 RA	Agencies	typed	s2c				string	2014-07-07			
40 TY	Types	typed	s2c				string	2014-07-07			

Figure 6. Structure of domains worksheet in EIOPA DPM Dictionary

#### IV.3.1.2 Dimensions worksheet

Dimensions worksheet (Figure 7) contains among others information about its code/name, label (in English), applicable domain code, owner, dimension in MD closed information.

– 2022-07-15 for concepts used in 2.6.0 and 2.6.1 release but not in 2.7.0 release of Annotated Templates,

– 2023-07-15 for concepts used in 2.7.0 but not in 2.8.0 release of Annotated Templates.

Applicable domain code identifies the domain that each dimension relates to. There must be one and only one applicable domain identified for each dimension but at the same time more than one dimension can be applicable for a single domain.

“Yes” in “dimension in MD Closed” column identifies those dimensions that can’t be included into MD metrics applicable in closed tables (see *IV.2 MD and HD versions of the DPM*).

#	Dim	Dimension label	Applicable domain code	Own	Dimension in MD Closed	Restriction on content	Pref	Namespac	Creation d	Validity date	Last modif
1	BC	Basic concepts	BC	s2c					2014-07-07		
2	AL	Type of assets and/or liabilities	MC	s2c					2014-07-07		
3	TT	Type of transaction	MC	s2c					2014-07-07		
4	GR	Types of guarantees received [on- and off- balance]	MC	s2c					2014-07-07		
5	AS	Type of assets	MC	s2c					2014-07-07		
6	LB	Type of liabilities	MC	s2c					2014-07-07		
7	OB	Type of off balance sheets concepts	MC	s2c					2014-07-07		
8	LS	Long or short positions	MC	s2c					2014-07-07	2013-12-31	
9	OS	Types of sum insured	MC	s2c					2014-07-07		
10	OZ	Sum insured by the reporting entity including technical provisions [other than local GAAP specific]	MC	s2c					2014-07-07	2013-12-31	
11	OF	Own funds	MC	s2c					2014-07-07		
12	PF	Types of performance	MC	s2c					2014-07-07		
13	VG	Valuation general	AM	s2c	yes				2014-07-07		
14	TA	Types of amount	AM	s2c	yes				2014-07-07		
15	DD	Discounted or undiscounted	AM	s2c					2014-07-07		
16	VP	Valuation of provisions	AM	s2c					2014-07-07		
17	AD	Prospective or retrospective	AM	s2c	yes				2014-07-07	2016-07-15	
18	TQ	Type of capital requirement	AM	s2c					2014-07-07	2013-12-31	
19	VM	Valuation method	VM	s2c	yes				2014-07-07		
20	VL	Valuation of provisions [general]	VM	s2c	yes				2014-07-07		
21	AG	Changes in own funds	VM	s2c	yes				2014-07-07		
22	HH	Changes in technical provisions	VM	s2c	yes				2014-07-07		
23	SY	Status of share payment, initial fund or mutual members account	VM	s2c					2014-07-07		
24	DU	Dated or undated	VM	s2c					2014-07-07		
25	XS	Changes in excess of assets over liabilities	VM	s2c					2014-07-07		
26	EA	SCR calculation	VM	s2c	yes				2014-07-07		
27	DI	Instant or duration	DI	s2c	yes				2014-07-07		
28	RR	Valuation of recoverables	VM	s2c					2014-07-07		
29	IT	Treatment of risk mitigation	TB	s2c					2014-07-07		
30	CC	Ceded and not ceded	TB	s2c					2014-07-07		
31	HS	Types of hedging strategies	TB	s2c					2014-07-07	2013-12-31	
32	AX	Applicable standard	AM	s2c	yes				2014-07-07		
33	TU	Type of underwriting model	TB	s2c					2014-07-07	2013-12-31	
34	TR	Types of reinsurance [traditional or not]	TB	s2c					2014-07-07	2013-12-31	
35	RX	Type of reinsurance treaty	TB	s2c					2014-07-07	2013-12-31	
36	XL	XL premiums	AM	s2c					2014-07-07	2013-12-31	
37	IY	Insurance/trade	PU	s2c					2014-07-07	2013-12-31	
38	IO	Investment or own use	PU	s2c					2014-07-07		

Figure 7. Structure of dimensions worksheet in EIOPA DPM Dictionary

#### IV.3.1.3 Metrics worksheet

There are two worksheets dedicated to metrics: met HD and met MD (Figure 8). The structure of those worksheets is the same. Both contain among others information about labels (in English), names, owners, data types, domains, hierarchies, and period types<sup>11</sup>. MD metrics labels are derived from HD components according to procedure described in section IV.2.

Domain information is applicable only to enum:enumerationItemType metrics. Two additional columns are referenced in those cases:

<sup>11</sup> All EIOPA DPM metrics are of instant period type. DI domain is used to specify period type attribute.

- Hierarchy – identifying a relationship set of domain members that are potential value of a metric. The set can be of nested structure,
- Member (optional) - it identifies in case of nested relationship sets starting nodes that are excluded from the set of selected values (i.e. if it is “Total/NA” then it means that children of “Total/NA” are available values, but “Total/NA” is not).

Label	Measure	Owner	Data type	Domain	Hierarchy	Member	Period type	Created at	Validity at	Last modified
Metric: Date (FO) Other than ring fenced funds (FO) Date of formal approval of internal model	#10	ICM	date	date			Instant	2014-07-07	2013-12-31	
Metric: Date (FO) Other than ring fenced funds (FO) Date of formal approval of partial internal model	#11	ICM	date	date			Instant	2014-07-07	2013-12-31	
Metric: Date (FO) Ring fenced funds (FO) Date of formal approval of internal model	#12	ICM	date	date			Instant	2014-07-07	2013-12-31	
Metric: Date (FO) Ring fenced funds (FO) Date of formal approval of partial internal model	#13	ICM	date	date			Instant	2014-07-07	2013-12-31	
Metric: Date (FO) Internal model (FO) Date of formal approval of internal model	#14	ICM	date	date			Instant	2014-07-07	2013-12-31	
Metric: Date (FO) Internal model (FO) Date of formal approval of partial internal model	#15	ICM	date	date			Instant	2014-07-07	2013-12-31	
Metric: Decimal (CC) Age of beneficiaries (unit)	#16	ICM	decimal	decimal			Instant	2014-07-07	2013-12-31	
Metric: Decimal (CC) Residual modified duration (unit)	#17	ICM	decimal	decimal			Instant	2014-07-07	2013-09-30	2013-09-30
Metric: Integer (NT) Number of allegations	#18	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Standard formula (NT) Number of claims (FO) Other than ring fenced funds	#19	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Standard formula (NT) Number of claims (FO) Ring fenced funds	#20	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Standard formula (NT) Number of policyholders (FO) Other than ring fenced funds	#21	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Standard formula (NT) Number of policyholders (FO) Ring fenced funds	#22	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Standard formula (NT) Number of vehicle policy limit above 24M€ (FO) Other than ring fenced funds	#23	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Standard formula (NT) Number of vehicle policy limit below or equal to 24M€ (FO) Other than ring fenced funds	#24	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Standard formula (NT) Number of vehicle policy limit below or equal to 24M€ (FO) Ring fenced funds	#25	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Standard formula (NT) Number of people insured (FO) Other than ring fenced funds	#26	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Standard formula (NT) Number of people insured (FO) Ring fenced funds	#27	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open	#28	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#29	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#30	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#31	ICM	integer	integer			Instant	2014-07-07	2013-09-30	2013-09-30
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#32	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#33	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#34	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#35	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#36	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#37	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#38	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#39	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#40	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#41	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#42	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#43	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#44	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#45	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#46	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#47	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#48	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#49	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#50	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#51	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#52	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#53	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#54	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#55	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#56	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#57	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#58	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#59	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#60	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#61	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#62	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#63	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#64	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#65	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#66	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#67	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#68	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#69	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#70	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#71	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#72	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#73	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#74	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#75	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#76	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#77	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#78	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#79	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#80	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#81	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#82	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#83	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#84	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#85	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#86	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#87	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#88	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#89	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#90	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#91	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#92	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#93	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#94	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#95	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#96	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#97	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#98	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (with payment)	#99	ICM	integer	integer			Instant	2014-07-07	2013-12-31	
Metric: Integer (NT) Number of claims (NT) Open (SO) Settled (without payment)	#100	ICM	integer	integer			Instant	2014-07-07	2013-12-31	

Figure 8. Structure of metrics worksheet in EIOPA DPM Dictionary

### IV.3.1.4 Domain worksheet

Domain worksheets (Figure 9) contain two sections of information:

- unstructured list of elements, including its label (in English), name and owner. This section is also used to identify a default member (“Yes” in “Default” column) and to count, how many times each domain member is being referenced from relationship sets section (“Count” column),
- information describing the relationship sets that are defined between domain members<sup>12</sup>.

Each relationship set is described by its number and label (i.e. “2: Tiers”). Domain members used in those relationship sets are organized in hierarchical structures (represented in column “Hierarchy”). There can be arithmetical relationship between

<sup>12</sup> This section is reflected also for metrics but in fact is not used there at the moment.



domain members in a hierarchy described using “Sign” and “Weight” columns. If a hierarchy is referenced by a metric, then usable attribute (in “Usable” column) can be used to identify those domain members that can’t be chosen as potential value of this particular metric<sup>13</sup>.

For each relationship set an owner is identified, as well as applicable dimension code. If a relationship set is referenced exclusively by a metric (not dimension) then N/A is specified (for technical reasons).

Label	Name	Default	Owner	Creation date	Validity date	Last mod	Count	Comment	Hierarchy	Name	Hierarchy Sign	Weight	Owner	Usable	Applicable	Applicable sheets for dropdowns	Creation date	Validity date
Total/NA	x0	yes	s2c	2014-07-07	2013-12-31		0		1: Collateral/Guarantee	x0	Total/NA =		s2c		N/A		2014-07-07	
Collateral	x1		s2c	2014-07-07	2013-12-31		1		Collateralised/guaranteed	x6	Collateral =	+					2014-07-07	2013-12-31
Collateral for reinsurance accepted [CR]	x2		s2c	2014-07-07			1		Collateralised	x5	Collateralised =	+					2014-07-07	2013-12-31
Collateral for securities borrowed [CB]	x3		s2c	2014-07-07			1		Guaranteed	x8	Guaranteed =	+					2014-07-07	2013-12-31
Collateral pledged [CP]	x4		s2c	2014-07-07			1		Not collateralised/guaranteed	x16	Not collateralised/guaranteed =	+					2014-07-07	2013-12-31
Collateralised	x5		s2c	2014-07-07	2013-12-31		1		2: Being collateral or not	x6	1 - Assets in the balance sheet that are collateral pledged		s2c		N/A	5.06.02 (201), 5E.06.02 (201)	2014-07-07	
Collateralised/guaranteed	x6		s2c	2014-07-07	2013-12-31		1		Collateral pledged [CPS]	x2	2 - Collateral for reinsurance accepted						2014-07-07	
Full capital protection	x7		s2c	2014-07-07			1		Collateral for reinsurance accepted [CR]	x3	3 - Collateral for securities borrowed						2014-07-07	
Guaranteed	x8		s2c	2014-07-07	2013-12-31		1		Repos [R]	x22	4 - Repos						2014-07-07	
Guaranteed minimum accumulation benefit [GMAx9]	x9		s2c	2014-07-07			2		Not collateral	x15	9 - Not collateral						2014-07-07	
Guaranteed minimum death benefit [GMDx10]	x10		s2c	2014-07-07			2		3: Collateral	x0	Total/NA =		s2c		N/A		2014-07-07	
Guaranteed minimum income benefit [GMIx11]	x11		s2c	2014-07-07			2		Total/NA	x18	On policies =	+					2014-07-07	
Guaranteed minimum withdrawal benefits [GMWx12]	x12		s2c	2014-07-07			2		On policies	x19	Other than on policies =	+					2014-07-07	
No [N]	x13		s2c	2014-07-07			1		Other than on policies and not collateralised	x24	SPV sufficiently collateralised		s2c		N/A		2014-07-07	
No capital protection	x14		s2c	2014-07-07			1		4: SPV sufficiently collateralised or not	x23	SPV not sufficiently collateralised						2014-07-07	
Not collateralised/guaranteed	x15		s2c	2014-07-07			1		SPV not sufficiently collateralised	x23	SPV not sufficiently collateralised						2014-07-07	
Not sensitive [NS]	x16		s2c	2014-07-07	2013-12-31		1		5: Capital protection	x7	1 - Full capital protection		s2c		N/A	5.07.01 (201)	2014-07-07	
On policies	x17		s2c	2014-07-07			1		Partial [P]	x21	2 - Partial capital protection						2014-07-07	
Other than on policies and not collateralised	x18		s2c	2014-07-07	2015-09-30		1		Partial capital protection	x21	3 - No capital protection						2014-07-07	
Partial [P]	x19		s2c	2014-07-07	2015-09-30		1		Repos [R]	x14	3 - No capital protection						2014-07-07	
Partial capital protection	x20		s2c	2014-07-07			1		SPV not sufficiently collateralised	x24	6: Types of guarantee (Preparatory scope)						2014-07-07	
Repos [R]	x21		s2c	2014-07-07			1		SPV sufficiently collateralised	x24	Total/NA		s2c		N/A		2014-07-07	2015-09-30
SPV not sufficiently collateralised	x22		s2c	2014-07-07			1		Guaranteed minimum death benefit [GMDx10]	x10	Guaranteed minimum death benefit [GMDx10]						2014-07-07	
SPV sufficiently collateralised	x23		s2c	2014-07-07			1		Guaranteed minimum accumulation benefit [GMAx9]	x9	Guaranteed minimum accumulation benefit [GMAx9]						2014-07-07	
Yes [Y]	x24		s2c	2014-07-07			1		Guaranteed minimum income benefit [GMIx11]	x11	Guaranteed minimum income benefit [GMIx11]						2014-07-07	
Collateralisation performed on a portfolio basis	x25		s2c	2014-07-07			2		Guaranteed minimum withdrawal benefits [GMWx12]	x12	Guaranteed minimum withdrawal benefits [GMWx12]						2014-07-07	
Collateralisation performed on a single contract	x26		s2c	2014-07-07			2		7: Hedge application	x25	1 - Hedged		s2c		N/A	5.15.02 (201)	2014-07-07	
Encumbered	x27		s2c	2014-07-07			1		Yes [Y]	x13	2 - Not hedged						2014-07-07	
Unencumbered	x28		s2c	2014-07-07			1		No [N]	x20	3 - Partially hedged						2014-07-07	
No collateral	x29		s2c	2014-07-07			1		Partial [P]	x17	4 - Guarantee not sensitive to						2014-07-07	
	x30		s2c	2014-07-07			1		Not sensitive [NS]									
	x31		s2c	2014-07-07			1											

**Figure 9. Structure of domain worksheet in EIOPA DPM Dictionary**

Hierarchy node label provides labels that should be used when particular hierarchy is referenced as a dropdown list.

### IV.3.2 EIOPA Annotated Templates

The Solvency II, Pension Funds, Pan-European Personal Pension Products KID, PR and Financial Conglomerates Annotated Templates reflect DPM framework (see section III.2). They provide a mapping between the Reporting Templates and DPM dictionary.

The Annotated Templates contain the HD model only and enough information to derive the MD from it (see *IV.2 MD and HD versions of the DPM*). This means that the Annotated Templates do not have to duplicate information (which must be kept in sync between the two models) causing a maintenance burden and a risk of errors.

<sup>13</sup> This mechanism is used for example for NACE codes when it was beneficial to reflect entire structure of those codes including those, that can’t be reported according to Solvency II rules. Those cases are identified with „no“ in „Usable“ column.

Annotated Templates are defined in the form of an Excel workbook containing a number of worksheets. In general, one worksheet describes one Business Template (however more than one graphical table may be annotated in one worksheet).

DPM qualifiers used in annotation represent the codes or labels of concepts defined in the dictionary. They may be associated with each row, column, and entire table (if applicable). Details explaining the DPM qualifiers are described in the next sections of this chapter.

#### IV.3.2.1 Organization of Annotated Templates

Organization of Annotated Templates follows the business requirements, e.g. Implementing Technical Standard (ITS). The general assumption is to assign the same template code when a template is used, without any changes, across different variants and entry points (modules). For example, S.02.02 is the same for solo and group variants, therefore in the Annotate Templates codification there is one template S.02.02.01 used in two entry points (01 and 04).

Table codes in Annotated Templates use the predefined structure {AA.XX.YY.ZZ.WW} comprising the following elements:

- AA: an alphanumeric code for the global reporting package. For Solvency II reporting it is either regular *S* (for regular Solvency II) or *SR* (for ring-fenced funds). For the Pension Funds the dedicated code is *PF*. For the Pan-European Personal Pension Products KID the dedicated code is *PEP*, while for PEPP PR it is *PP*. Financial Conglomerates templates use *FC* code instead. Other frameworks like the Solvency II ECB add-ons, Pension Funds ECB add-ons or Special Purpose Vehicles (SPVs) have different prefixes:
  - SE for the Solvency II templates extended to meet the ECB add-on reporting requirements,
  - E for the ECB add-on specific templates added on top of the Solvency II reporting requirements,
  - SPV for the Special Purpose Vehicles specific templates,
  - PFE for the Pension Funds templates extended to meet the ECB add-on reporting requirements,
  - EP for the ECB add-on specific templates added on top of the Pension Funds reporting requirements,

- T, PT, PET, FT for Technical Tables which are not part of a specific business regulation (applicable to Solvency II, Pension Finds and PEPP KID, PEPP PR and FICOD frameworks respectively)<sup>14</sup>.
- XX: a numeric code for the templates group, for example 01 (for Basic Information), 02 (for Balance Sheet), etc.,
- YY: a numeric code for the specific template (sequential code kept stable over time),
- ZZ: two digits assigned to an entry point (reporting obligation) which can be reused by other entry points (with a higher number) if the template is the same<sup>15</sup> as presented on Figure 10.
  - the annual individual templates are considered the “default” one for the Solvency II package (as it is the largest package) and has code “01”<sup>16</sup>;
  - for other Solvency II entry points it is assessed if the template with code “01” can be reused; if not, the template is assigned a sequential code: “02”; subsequent entry points may reuse template “01” or “02” if they are identical; if not the template is assigned another sequential code “04” and so on (see example for S.01.03 in Figure 10),
- WW: table number within an Annotated Template (Excel Worksheet); it is related to the XBRL taxonomy implementation; EIOPA has made a commitment to keep the code stable as long as there are no business changes to the particular table requirements (if there are substantial modifications, a new table with a new code will be assigned and the previous table will become obsolete or will be replaced)<sup>17</sup>.

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<sup>14</sup> Table with this prefix was introduced to address potential mistakes in the DPM resulting in missing datapoint containers to report necessary information.

<sup>15</sup> A similar approach was used for this code in the IT implementation of the codification for the Solvency II Preparatory Phase.

<sup>16</sup> The default variant for the Pension funds templates is .24, .33 for PEPP PR and .34 for PEPP KID.

<sup>17</sup> This helps, for example, during an IT mapping exercise to identify tables that need to be remapped because something has changed.



### IV.3.2.3 Annotation convention

Annotation of Business Templates is conducted through assignment of metrics and other business properties (dimension-member pairs) to each identifiable data cell by their application to the entire table, its row or column (and hence to a data cell which is on the intersection). It is possible to apply multiple sets of characteristics to each data cell.

Characteristics applicable to data cells are arranged graphically in either subsequent vertical columns (below each column of an annotated template) or horizontal rows (on the right-hand side of each row of an annotated template). Characteristics applicable to the entire table are described in a separate location on the worksheet (as a "Z axis:" property usually above the table). In case of semi open tables (i.e. which rows or columns are multiplied by a specified explicit dimension members hierarchy) the expandable rows or columns are annotated as "X axis:" or "Y axis:".

S.25.02.01

Solvency Capital Requirement – for undertakings using the standard formula and partial internal model

S.25.02.01.01

Component specific information

Unique number of component	Component Description	Calculation of the Solvency Capital Requirement	Allocation from adjustments due to RFF and matching adjustments	Consideration of the future management actions regarding technical provisions and/or deferred taxes	Amount modelled
CO010	CO020	CO030	CO040	CO050	CO070
*natural key*	Metric: String U/Partial internal model	Metric: Monetary U/Standard formula or partial internal model	Metric: Monetary U/Standard formula or partial internal model	Metric: Monetary U/Standard formula or partial internal model	Metric: Monetary U/Standard formula or partial internal model
Nat code of component	TS/Description of component	BC/Solvency capital requirement [SCE]	BC/Solvency capital requirement [SCE]	BC/Solvency capital requirement [SCE]	BC/Solvency capital requirement [SCE]
*mandatory*		VII/Solvency II	VII/Solvency II	VII/Solvency II	VII/Solvency II
		II/After risk mitigation effect	II/After risk mitigation effect	II/After risk mitigation effect	II/After risk mitigation effect
		EA/Including the loss-absorbing capacity of technical provisions and deferred taxes	EA/Including the loss-absorbing capacity of technical provisions and deferred taxes	EA/Including the loss-absorbing capacity of technical provisions and deferred taxes	EA/Including the loss-absorbing capacity of technical provisions and deferred taxes

S.25.02.01.02

Z Axis:

VII/Solvency II

Calculation of Solvency Capital Requirement

	CO100	CO110	CO120	CO130	CO140	CO150	CO160	CO170	CO180	CO190	CO200	CO210	CO220	CO230	CO240	CO250	CO260	CO270	CO280	CO290	CO300	CO310	CO320	CO330	CO340	CO350	CO360	CO370	CO380	CO390	CO400	CO410	CO420	CO430	CO440	CO450	CO460	CO470	CO480	CO490	CO500	CO510	CO520	CO530	CO540	CO550	CO560	CO570	CO580	CO590	CO600	CO610	CO620	CO630	CO640	CO650	CO660	CO670	CO680	CO690	CO700	CO710	CO720	CO730	CO740	CO750	CO760	CO770	CO780	CO790	CO800	CO810	CO820	CO830	CO840	CO850	CO860	CO870	CO880	CO890	CO900	CO910	CO920	CO930	CO940	CO950	CO960	CO970	CO980	CO990	CO1000	CO1010	CO1020	CO1030	CO1040	CO1050	CO1060	CO1070	CO1080	CO1090	CO1100	CO1110	CO1120	CO1130	CO1140	CO1150	CO1160	CO1170	CO1180	CO1190	CO1200	CO1210	CO1220	CO1230	CO1240	CO1250	CO1260	CO1270	CO1280	CO1290	CO1300	CO1310	CO1320	CO1330	CO1340	CO1350	CO1360	CO1370	CO1380	CO1390	CO1400	CO1410	CO1420	CO1430	CO1440	CO1450	CO1460	CO1470	CO1480	CO1490	CO1500	CO1510	CO1520	CO1530	CO1540	CO1550	CO1560	CO1570	CO1580	CO1590	CO1600	CO1610	CO1620	CO1630	CO1640	CO1650	CO1660	CO1670	CO1680	CO1690	CO1700	CO1710	CO1720	CO1730	CO1740	CO1750	CO1760	CO1770	CO1780	CO1790	CO1800	CO1810	CO1820	CO1830	CO1840	CO1850	CO1860	CO1870	CO1880	CO1890	CO1900	CO1910	CO1920	CO1930	CO1940	CO1950	CO1960	CO1970	CO1980	CO1990	CO2000	CO2010	CO2020	CO2030	CO2040	CO2050	CO2060	CO2070	CO2080	CO2090	CO2100	CO2110	CO2120	CO2130	CO2140	CO2150	CO2160	CO2170	CO2180	CO2190	CO2200	CO2210	CO2220	CO2230	CO2240	CO2250	CO2260	CO2270	CO2280	CO2290	CO2300	CO2310	CO2320	CO2330	CO2340	CO2350	CO2360	CO2370	CO2380	CO2390	CO2400	CO2410	CO2420	CO2430	CO2440	CO2450	CO2460	CO2470	CO2480	CO2490	CO2500	CO2510	CO2520	CO2530	CO2540	CO2550	CO2560	CO2570	CO2580	CO2590	CO2600	CO2610	CO2620	CO2630	CO2640	CO2650	CO2660	CO2670	CO2680	CO2690	CO2700	CO2710	CO2720	CO2730	CO2740	CO2750	CO2760	CO2770	CO2780	CO2790	CO2800	CO2810	CO2820	CO2830	CO2840	CO2850	CO2860	CO2870	CO2880	CO2890	CO2900	CO2910	CO2920	CO2930	CO2940	CO2950	CO2960	CO2970	CO2980	CO2990	CO3000	CO3010	CO3020	CO3030	CO3040	CO3050	CO3060	CO3070	CO3080	CO3090	CO3100	CO3110	CO3120	CO3130	CO3140	CO3150	CO3160	CO3170	CO3180	CO3190	CO3200	CO3210	CO3220	CO3230	CO3240	CO3250	CO3260	CO3270	CO3280	CO3290	CO3300	CO3310	CO3320	CO3330	CO3340	CO3350	CO3360	CO3370	CO3380	CO3390	CO3400	CO3410	CO3420	CO3430	CO3440	CO3450	CO3460	CO3470	CO3480	CO3490	CO3500	CO3510	CO3520	CO3530	CO3540	CO3550	CO3560	CO3570	CO3580	CO3590	CO3600	CO3610	CO3620	CO3630	CO3640	CO3650	CO3660	CO3670	CO3680	CO3690	CO3700	CO3710	CO3720	CO3730	CO3740	CO3750	CO3760	CO3770	CO3780	CO3790	CO3800	CO3810	CO3820	CO3830	CO3840	CO3850	CO3860	CO3870	CO3880	CO3890	CO3900	CO3910	CO3920	CO3930	CO3940	CO3950	CO3960	CO3970	CO3980	CO3990	CO4000	CO4010	CO4020	CO4030	CO4040	CO4050	CO4060	CO4070	CO4080	CO4090	CO4100	CO4110	CO4120	CO4130	CO4140	CO4150	CO4160	CO4170	CO4180	CO4190	CO4200	CO4210	CO4220	CO4230	CO4240	CO4250	CO4260	CO4270	CO4280	CO4290	CO4300	CO4310	CO4320	CO4330	CO4340	CO4350	CO4360	CO4370	CO4380	CO4390	CO4400	CO4410	CO4420	CO4430	CO4440	CO4450	CO4460	CO4470	CO4480	CO4490	CO4500	CO4510	CO4520	CO4530	CO4540	CO4550	CO4560	CO4570	CO4580	CO4590	CO4600	CO4610	CO4620	CO4630	CO4640	CO4650	CO4660	CO4670	CO4680	CO4690	CO4700	CO4710	CO4720	CO4730	CO4740	CO4750	CO4760	CO4770	CO4780	CO4790	CO4800	CO4810	CO4820	CO4830	CO4840	CO4850	CO4860	CO4870	CO4880	CO4890	CO4900	CO4910	CO4920	CO4930	CO4940	CO4950	CO4960	CO4970	CO4980	CO4990	CO5000	CO5010	CO5020	CO5030	CO5040	CO5050	CO5060	CO5070	CO5080	CO5090	CO5100	CO5110	CO5120	CO5130	CO5140	CO5150	CO5160	CO5170	CO5180	CO5190	CO5200	CO5210	CO5220	CO5230	CO5240	CO5250	CO5260	CO5270	CO5280	CO5290	CO5300	CO5310	CO5320	CO5330	CO5340	CO5350	CO5360	CO5370	CO5380	CO5390	CO5400	CO5410	CO5420	CO5430	CO5440	CO5450	CO5460	CO5470	CO5480	CO5490	CO5500	CO5510	CO5520	CO5530	CO5540	CO5550	CO5560	CO5570	CO5580	CO5590	CO5600	CO5610	CO5620	CO5630	CO5640	CO5650	CO5660	CO5670	CO5680	CO5690	CO5700	CO5710	CO5720	CO5730	CO5740	CO5750	CO5760	CO5770	CO5780	CO5790	CO5800	CO5810	CO5820	CO5830	CO5840	CO5850	CO5860	CO5870	CO5880	CO5890	CO5900	CO5910	CO5920	CO5930	CO5940	CO5950	CO5960	CO5970	CO5980	CO5990	CO6000	CO6010	CO6020	CO6030	CO6040	CO6050	CO6060	CO6070	CO6080	CO6090	CO6100	CO6110	CO6120	CO6130	CO6140	CO6150	CO6160	CO6170	CO6180	CO6190	CO6200	CO6210	CO6220	CO6230	CO6240	CO6250	CO6260	CO6270	CO6280	CO6290	CO6300	CO6310	CO6320	CO6330	CO6340	CO6350	CO6360	CO6370	CO6380	CO6390	CO6400	CO6410	CO6420	CO6430	CO6440	CO6450	CO6460	CO6470	CO6480	CO6490	CO6500	CO6510	CO6520	CO6530	CO6540	CO6550	CO6560	CO6570	CO6580	CO6590	CO6600	CO6610	CO6620	CO6630	CO6640	CO6650	CO6660	CO6670	CO6680	CO6690	CO6700	CO6710	CO6720	CO6730	CO6740	CO6750	CO6760	CO6770	CO6780	CO6790	CO6800	CO6810	CO6820	CO6830	CO6840	CO6850	CO6860	CO6870	CO6880	CO6890	CO6900	CO6910	CO6920	CO6930	CO6940	CO6950	CO6960	CO6970	CO6980	CO6990	CO7000	CO7010	CO7020	CO7030	CO7040	CO7050	CO7060	CO7070	CO7080	CO7090	CO7100	CO7110	CO7120	CO7130	CO7140	CO7150	CO7160	CO7170	CO7180	CO7190	CO7200	CO7210	CO7220	CO7230	CO7240	CO7250	CO7260	CO7270	CO7280	CO7290	CO7300	CO7310	CO7320	CO7330	CO7340	CO7350	CO7360	CO7370	CO7380	CO7390	CO7400	CO7410	CO7420	CO7430	CO7440	CO7450	CO7460	CO7470	CO7480	CO7490	CO7500	CO7510	CO7520	CO7530	CO7540	CO7550	CO7560	CO7570	CO7580	CO7590	CO7600	CO7610	CO7620	CO7630	CO7640	CO7650	CO7660	CO7670	CO7680	CO7690	CO7700	CO7710	CO7720	CO7730	CO7740	CO7750	CO7760	CO7770	CO7780	CO7790	CO7800	CO7810	CO7820	CO7830	CO7840	CO7850	CO7860	CO7870	CO7880	CO7890	CO7900	CO7910	CO7920	CO7930	CO7940	CO7950	CO7960	CO7970	CO7980	CO7990	CO8000	CO8010	CO8020	CO8030	CO8040	CO8050	CO8060	CO8070	CO8080	CO8090	CO8100	CO8110	CO8120	CO8130	CO8140	CO8150	CO8160	CO8170	CO8180	CO8190	CO8200	CO8210	CO8220	CO8230	CO8240	CO8250	CO8260	CO8270	CO8280	CO8290	CO8300	CO8310	CO8320	CO8330	CO8340	CO8350	CO8360	CO8370	CO8380	CO8390	CO8400	CO8410	CO8420	CO8430	CO8440	CO8450	CO8460	CO8470	CO8480	CO8490	CO8500	CO8510	CO8520	CO8530	CO8540	CO8550	CO8560	CO8570	CO8580	CO8590	CO8600	CO8610	CO8620	CO8630	CO8640	CO8650	CO8660	CO8670	CO8680	CO8690	CO8700	CO8710	CO8720	CO8730	CO8740	CO8750	CO8760	CO8770	CO8780	CO8790	CO8800	CO8810	CO8820	CO8830	CO8840	CO8850	CO8860	CO8870	CO8880	CO8890	CO8900	CO8910	CO8920	CO8930	CO8940	CO8950	CO8960	CO8970	CO8980	CO8990	CO9000	CO9010	CO9020	CO9030	CO9040	CO9050	CO9060	CO9070	CO9080	CO9090	CO9100	CO9110	CO9120	CO9130	CO9140	CO9150	CO9160	CO9170	CO9180	CO9190	CO9200	CO9210	CO9220	CO9230	CO9240	CO9250	CO9260	CO9270	CO9280	CO9290	CO9300	CO9310	CO9320	CO9330	CO9340	CO9350	CO9360	CO9370	CO9380	CO9390	CO9400	CO9410	CO9420	CO9430	CO9440	CO9450	CO9460	CO9470	CO9480	CO9490	CO9500	CO9510	CO9520	CO9530	CO9540	CO9550	CO9560	CO9570	CO9580	CO9590	CO9600	CO9610	CO9620	CO9630	CO9640	CO9650	CO9660	CO9670	CO9680	CO9690	CO9700	CO9710	CO9720	CO9730	CO9740	CO9750	CO9760	CO9770	CO9780	CO9790	CO9800	CO9810	CO9820	CO9830	CO9840	CO9850	CO9860	CO9870	CO9880	CO9890	CO9900	CO9910	CO9920	CO9930	CO9940	CO9950	CO9960	CO9970	CO9980	CO9990	CO10000	CO10010	CO10020	CO10030	CO10040	CO10050	CO10060	CO10070	CO10080	CO10090	CO10100	CO10110	CO10120	CO10130	CO10140	CO10150	CO10160	CO10170	CO10180	CO10190	CO10200	CO10210	CO10220	CO10230	CO10240	CO10250	CO10260	CO10270	CO10280	CO10290	CO10300	CO10310	CO10320	CO10330	CO10340	CO10350	CO10360	CO10370	CO10380	CO10390	CO10400	CO10410	CO10420	CO10430	CO10440	CO10450	CO10460	CO10470	CO10480	CO10490	CO10500	CO10510	CO10520	CO10530	CO10540	CO10550	CO10560	CO10570	CO10580	CO10590	CO10600	CO10610	CO10620	CO10630	CO10640	CO10650	CO10660	CO10670	CO10680	CO10690	CO10700	CO10710	CO10720	CO10730	CO10740	CO10750	CO10760	CO10770	CO10780	CO10790	CO10800	CO10810	CO10820	CO10830	CO10840	CO10850	CO10860	CO10870	CO10880	CO10890	CO10900	CO10910	CO10920	CO10930	CO10940	CO10950	CO10960	CO10970	CO10980	CO10990	CO11000	CO11010	CO11020	CO11030	CO11040	CO11050	CO11060	CO11070	CO11080	CO11090	CO11100	CO11110	CO11120	CO11130	CO11140	CO11150	CO11160	CO11170	CO11180	CO11190	CO11200	CO11210	CO11220	CO11230	CO11240	CO11250	CO11260	CO11270	CO11280	CO11290	CO11300	CO11310	CO11320
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- set of explicit dimension-member pairs following the pattern {dimension code}/"All members" with identification of a subdomain that defines applicable domain members,
- typed dimensions annotated as {dimension code}:{label of dimension}, i.e. "NF: Number of fund".

Note that when there are multiple variants of a template which differ only by the "Z axis:" property, they can be combined onto one sheet using multiple "Z axis:" sections.

For open tables, the columns and z-axes which, if reported, uniquely identify the row are annotated with identification of the type of key:

- *\*natural key\** if a column is provided by Business templates and is required to uniquely identify the row,
- *\*artificial key\**, when a column was introduced to Annotated templates in addition to a number of potential *\*natural keys\** to replace them in a 'key' function (i.e. 'XF: S.10.01.zz.01 line identification', where 'XF' is a code of typed dimension; 'zz' specifies that the line identification code is attributable to each variant of particular table),
- *\*foreign key\** to identify the relation between tables that were normalized (i.e. *\*foreign key to S.06.02.01.02\**). In a table where information is classified as *\*foreign key\** such information can be reported multiple times. In a table where the foreign key refers to (S.06.02.01.02 in provided example) information can be reported just once.

Additional information provided for columns of open tables modelled with typed or explicit dimensions is if those columns are "mandatory" or "optional"<sup>18</sup>. Information in "mandatory" column is expected to be provided for each row when the table is reported. Information in "optional" columns doesn't have to be provided for all rows and detailed scenarios are explained in the legal documentation.

Blue font identifies the HD annotation that is replaced by the MD metric (for each row, column or table "Z axis:" property. Black font identifies dimensional annotation applicable to both MD and HD approaches.

#### IV.3.2.4 Named ranges and cell styles

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<sup>18</sup> The Annotated Templates do not provide for now any information if columns modelled as MD metric are "mandatory" or "optional".

**Table 2. Examples of named ranges**

Item	Explanation	Example
AA.XX.YY.ZZ	The IT code given to the specific table.	S.01.02.01
AA.XX.YY.ZZ.NN	The IT code given to the specific sub-table.	S.01.02.01.01
AA.XX.YY.ZZ.NN.TD	Covers rectangular area enclosing the data cells.	S.01.02.01.01.TD
AA.XX.YY.ZZ.NN.TL	Concerns the business labels, located on the far-left side of a table.	S.01.02.01.01.TL
AA.XX.YY.ZZ.NN.TL C	The business labels codes, located on the right side of the business labels .TL column.	S.01.02.01.01.TLC
AA.XX.YY.ZZ.NN.TT	The business labels on the top of a table.	S.01.02.01.01.TT
AA.XX.YY.ZZ.NN.TT C	The business labels codes, located below of the business labels .TT row.	S.01.02.01.01.TTC
AA.XX.YY.ZZ.NN.TC	The caption of the table.	S.01.02.01.01.TC
AA.XX.YY.ZZ.NN.TK	The line of identification labels for the table.	S.01.02.01.01.TK
AA.XX.YY.ZZ.NN.TK C	Codes for the line of the identification labels.	S.01.02.01.01.TKC
AA.XX.YY.ZZ.NN.X	X axis annotations produced by the DPM analysis.	S.01.02.01.01.X
AA.XX.YY.ZZ.NN.Y	Y axis annotations produced by the DPM analysis. In case of open table create a unique key of the row.	S.01.02.01.01.Y
AA.XX.YY.ZZ.NN.Z	Z axis annotations produced by the DPM analysis.	S.01.02.01.01.Z
AA.XX.YY.ZZ.NN.XA X	The second X axis	S.01.02.01.01.XAX
AA.XX.YY.ZZ.NN.YA X	The second Y axis	S.01.02.01.01.YAX
AA.XX.YY.ZZ.NN.ZH I	The second Z axis	S.01.02.01.01.ZHI
AA.XX.YY.ZZ.NN.YH I	Part of the key in the open table, which used a dropdown list.	S.01.02.01.01.YHI

To allow the automated process of parsing of the Annotated Templates to a structured format (database, XBRL, etc.), each template and table is described using MS Excel named ranges and (if applicable) cell styles. Examples and explanation of some named ranges is provided in Table 2. Content of each table (identified as '.TD' named range) is described with one of two cell styles:

- 'DPM\_EmptyCell' for not reportable cells,
- 'DPM\_CellCode' for reportable cell.

Location of named ranges for different use cases is presented in Figure 12.



S.12.03.01.04				S.XX.YY.ZZ		.X		.XAX	
Z axis:				S.XX.YY.ZZ.NN		.Y		.YAX	
RC/Other than reporting currency						.TC		.TL	
EE/Other than home country						.TD		.TLC	
BL/Life and Health SLT						.TK		.TT	
VG/Solvency II						.TKC		.TTC	
VL/Best estimate									
X axis:									
OC/All members		Other than reporting currency	R0010	CU_5					
Y axis:									
LG/All members		Other than home country	C0020	GA_1B					

By country (other than home country) and by currency (other than reporting currency)									
			Part of the Best Estimate written in the currencies						
			C0050						
Total value of Best Estimate in countries other than home country		R0040			Metric: Monetary		BC/Liability		LB/Gross technical provisions [other than local GAAP specific]

S.16.01.01				
F4				
Information on annuities stemming from Non-Life Insurance obligations				
S.16.01.01.01				
Z Axis:				
TB/Direct Business				
BL/Annuities stemming from non-life insurance contracts				
VG/Solvency II				
RB/All members		The related non-life line of business	Z0010	LB_30
AX/All members		Accident year / Underwriting year	Z0020	AM_B
OC/All members		Currency	Z0040	CU_1

Information on year N:					
		C0010			
The average technical rate		R0010	H1	TA/Average [weighted]	Metric: Pure
The average duration of the obligations		R0020	I1	TA/Average [weighted]	Metric: Decimal
The weighted average age of the beneficiaries		R0030	J1	TA/Average [weighted]	Metric: Decimal
RM/N					

S.36.01.01										
IGT3										
IGT - Internal Reinsurance										
S.36.03.01.01										
IGT - Internal Reinsurance										
ID of intergroup transaction	Line of business	Identification code of cedant	Identification code of reinsurer	Name of cedant	Name of reinsurer	Validity period (start date)	Validity period (expiry date)	Currency of contract/treaty	Type of reinsurance contract/treaty	Maximum cover by reinsurer under contract/treaty
C0010	C0160	C0030	C0060	C0020	C0050	C0080	C0090	C0100	C0110	C0120
		CE	RE	BE	RE	FE	GE	RE	RE	RE
*natural key*	*natural key*			Metric: String	Metric: String	Metric: Date	Metric: Date	Metric: Placement currency/currency of contract	Metric: Type of reinsurance contract/treaty (IG (full scope))	Metric: Monetary
GK: ID of intergroup transaction	BL/All members	IX: Identification code of investor/buyer/transferor/payer/reinsured/beneficiary		TX: Identification code of issuer/seller/transferor/receiver/reinsurer/provider		TI/Name of investor/buyer/transferor/payer/reinsured/beneficiary	TI/Name of issuer/seller/transferor/receiver/reinsurer/provider	TD/Start date	TD/End date	TA/Maximum cover
	LB_30									BC/Reinsurance contract/treaty cover conditions

Figure 12. Location of named ranges for different use cases

## V Particularities of the DPM technical implementation

The EIOPA DPM and XBRL Taxonomies should be as close as possible to Business templates and Business logs. However, some differences occurred due to technical restrictions coming from the particular technical implementation (DPM and XBRL) or in order to facilitate the reporting. This chapter aims to document the main differences, some of them may be also amended in the Business templates and Business logs in future.



## V.1 Differences between Reporting Templates and Annotated Templates

### V.1.1 Introduction of “\*artificial keys\*”

In case of each open table it is necessary to identify at least one column constituting unique key for a row. The preferred situation is when there is a column provided in Business templates and described in Business logs that could be used as \*natural key\*. However in some cases it is necessary to introduce \*artificial key\* column not present in Business templates<sup>19</sup>. In general there could be two situations like that:

- it is necessary due to table construction but potential candidate for \*natural key\* is not recommended from implementation perspective. For example “Description (...)” type of column, like C0010 defined in S.23.04 business templates, provides too much flexibility to be efficiently used as a unique key of a row,
- set of „natural keys” to uniquely identify a row would be very complex (i.e. S.06.02 business templates).

### V.1.2 Using URIs, being combination of “code” and “type of code”

Information defined in Business templates separately for „code” (URN) and „type of code” (URL) could be merged in Annotated templates constituting „type of code”/“code” information (URI). Such an approach is used in EIOPA DPM for entity codes and instrument codes.<sup>20</sup> As a result column from Business templates representing „type of code” is not reflected in Annotated templates for those cases.

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<sup>19</sup> See IV.3.2.1 for details.

<sup>20</sup> See Filing rules, V.1 and V.2 for details.

### V.1.3 Splitting templates

According to DPM methodology it is currently necessary to separate closed and open or semi-open parts of Business Templates. As a result it could be perceived as another difference between Business and Annotated templates. However it must be noted that splitting Business templates no new information is requested by Annotated templates (see Figure 13).

S.04.02.01 Information on class 10 in Part A of Annex I of Solvency II Directive, excluding carrier's liability				
S.04.02.01.01 Information on class 10 in Part A of Annex I of Solvency II Directive, excluding carrier's liability. Part 1				
		Undertaking		
		FPS		
		C0010		
Frequency of claims for Motor vehicle liability (except carrier's liability)	R0010			
Average cost of claims for Motor vehicle liability (except carrier's liability)	R0030			
		TZ/Free to provide services by undertaking		
		LA/EEA countries [other than home country]		
		TA/Average		
		VG/Statutory accounts		
		Metric: Monetary		
		CB/Motor vehicle liability insurance (except carrier's liability)		
		NT/Frequency of claims		
		BC/Cost of claims		
S.04.02.01.02 S.04.02.01.02 Information on class 10 in Part A of Annex I of Solvency II Directive, excluding carrier's liability. Part 2				
		By EEA Member		
		Branch		
		FPS		
		C0020		
Frequency of claims for Motor vehicle liability (except carrier's liability)	R0010			
Average cost of claims for Motor vehicle liability (except carrier's liability)	R0030			
		TZ/Typical branch activity		
		LA/EEA		
		LA/Local		
		TZ/Free to provide services by the branch		
		LA/EEA		
		LA/Not local [EEA]		
		TA/Average		
		VG/Statutory accounts		
		Metric: Monetary		
		CB/Motor vehicle liability insurance (except carrier's liability)		
		NT/Frequency of claims		
		BC/Cost of claims		
Annex I S.04.02.01 Information on class 10 in Part A of Annex I of Solvency II Directive, excluding carrier's liability				
		Undertaking		
		FPS		
		C0010		
		By EEA Member		
		Branch		
		FPS		
		C0020		
		...		
		Branch		
		...		
		FPS		
Country	R0010			
Frequency of claims for Motor Vehicle Liability (except carrier's liability)	R0020			
Average cost of claims for Motor Vehicle Liability (except carrier's liability)	R0030			

Figure 13. Example of Business Template that needs to be split in Annotated Templates for modelling reasons

### V.1.4 Necessity to reorganize the columns in open tables

Organization of open tables in Annotated templates due to technical constrains must follow predefined order: (1) typed dimensions, (2) explicit dimensions and (3) MD metrics. Inside of each of three components of Annotated templates above order from Business templates is being followed however it can be perceived as another discrepancy between Business and Annotated templates (see Figure 14).

**Z Axis:**  
SU/Assets other than derivatives and Assets held as collateral

Line identification	Asset ID Code and Type of code	Fund number	Matching portfolio number	Portfolio	Asset held in unit linked and index linked contracts	Asset pledged as collateral
C0001	C0040	C0070	C0080	C0060	C0090	C0100
*artificial key* "mandatory"	*foreign key to S.06.02.01.02* "mandatory"	"optional"	"optional"	Metric: Portfolio (investment, securities lending and repo)[210]	Metric: Held in unit linked and index linked funds	Metric: Asset pledged as collateral
XA: S.06.02.zx.01 line identification	UI: URI	NF: Number of fund	MP: Matching portfolio number			

### List of assets

Asset ID Code	Asset ID Code type	Portfolio	Fund number	Matching portfolio number	Asset held in unit linked and index linked contracts	Asset pledged as collateral
C0040	C0050	C0060	C0070	C0080	C0090	C0100

### V.1.5 Removing redundant and problematic information

“Legal name of undertaking” is potentially a shared datapoint between S.32.01 and S.35.01 Business templates. However information provided in S.35.01 Business template from this datapoint perspective is a subset of information to be reported in S.32.01 Business template. Modelling “Legal name of undertaking” column in both S.32.01 and S.35.01 Annotated templates would result in redundant rows in S.35.01 Annotated template that would be filled in only for “Legal name of undertakings” column. To solve the issue it was decided to remove column C0020 from S.35.01 Annotated template (see Figure 15). It should be noticed that this information is already provided for each code of undertaking in S.32.01 Annotated template.

### Contribution to group Technical Provisions

[illegible]

Legal name of each undertaking	Identification code of the undertaking	Type of code of the ID of the undertaking	Method of group solvency calculation used	Total amount of TP		Technical Provisions - Non-Life (excluding Health)			Technical Provisions - Health (similar to non-life)		
				Amount of TP gross of IGT	Amount of TP net of IGT	Amount of TP gross of IGT	Amount of TP net of IGT	Net contribution to Group TP (%)	Amount of TP gross of IGT	Amount of TP net of IGT	Net contribution to Group TP (%)
C0010	C0020	C0030	C0040	C0050	C0060	C0070	C0080	C0090	C0100	C0110	C0120

**Figure 15. Example of Business Template and Annotated template where redundant information (C0010) was removed from annotated template**

### V.1.6 'Link' metric

According to DPM methodology each datapoint must include one and only one metric. As a result it is challenging to reflect a simple relation between two or more information modelled as typed dimension. As such challenge existed, for instance in the Solvency II reporting tables, EIOPA decided to solve it in the DPM by attaching a meaningless metric to set of typed dimensions if necessary. Such a metric is created based on Boolean data type where the only acceptable value is 'true' - to reflect the existence of mentioned relation (see: Figure 16).

#### S.14.01.01.04

##### Information on products and homogeneous risk groups

Product ID code	HRG code	Link
C0220	C0230	C0250

\*foreign key to  
\*natural key\*|"mandatory" S.14.01.01.03\*|"natural key\*|"mandatory"  
IP: ID code of product HX: ID code of HRG  
Metric: Link

**Figure 16. Example of application of Metric: Link. This case is not present in 2.8.0 EIOPA DPM/XBRL Taxonomy release.**

### V.1.7 Differences in columns meaning

In the template S.21.02, cell C0080 labelled as "Currency" is modelled as 'Original currency of exposure/transaction/instrument' to avoid a clerical error requesting the reporting currency that is provided already in the Basic information template.

### V.1.8 Technical rows in Basic information templates

In order to minimize the risk of a necessity to publish a hotfix release, especially when identical data points were wrongly identified, set of three technical containers was added to the Basic information templates. Those containers, titled “Ad hoc XBRL technical field 1”, “Ad hoc XBRL technical field 2” and “Ad hoc XBRL technical field 3” should be used only on the EIOPA request and in the manner specified in the “List of known issues” document.

## V.2 Differences between DPM Dictionary and Business logs

### V.2.1 Differences in enumerations

Enumerations provided by Business logs should be reflected in DPM Dictionary as hierarchy node labels. However Business logs dedicated to SPV reporting specify in Content table option “9” for cases when particular table doesn’t have to be reported. For all other entry points it is option “0” that is supposed to be used. To assure internal consistency of DPM “0 - Not reported (in this case special justification is needed)” needs to be provided when according to Business logs “9 - Not reported (in this case justification is required)” should be chosen. This issue relates to SPV.01.01.20.01 table only ([Table 3](#)).

**Table 3. Differences in enumerations between Business logs and DPM Dictionary**

Table	Row code	Business logs	DPM Dictionary
SPV.01.01.20.01	R0020	1 - Reported 9 - Not reported (in this case justification is required)	1 - Reported 0 - Not reported (in this case special justification is needed)
SPV.01.01.20.01	R0030	1 - Reported 2 - Not reported o/a no off-balance sheet items 9 - Not reported other reason (in this case justification is required)	1 - Reported 2 - Not reported as no off-balance sheet items 0 - Not reported other reason (in this case special justification is needed)
SPV.01.01.20.01	R0040	1 - Reported 9 - Not reported (in this case justification is required)	1 - Reported 0 - Not reported (in this case special justification is needed)
SPV.01.01.20.01	R0050	1 - Reported 9 - Not reported (in this case justification is required)	1 - Reported 0 - Not reported (in this case special justification is needed)

## V.3 Specific DPM-based solutions applied

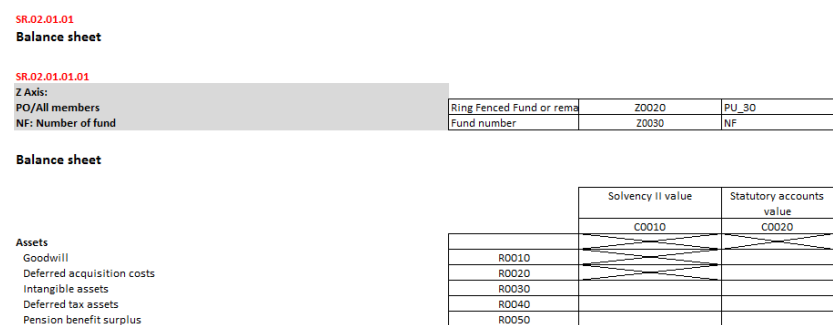
### V.3.1 Addressing RFFs/MAPs/Remaining part reporting scenarios

Some of EIOPA templates are dedicated to report information (i) for potentially unlimited number of ‘Ring fenced funds’, (ii) potentially unlimited number of ‘Matching adjustment portfolios’ and (iii) single ‘Remaining part’. Codes of such templates start with ‘SR’. To

make the number of technical tables as low as possible EIOPA decided, comparing to the approach used for Preparatory phase, to use a mechanism that would allow to apply the same technical table to all of three scenarios above. As it could be necessary to multiply each template which code starts with 'SR' at least two dimensions are used on the Z-axis:

- one explicit dimension to specify if the table is reported for RFF, MAP or Remaining part<sup>21</sup>,
- one typed dimension to identify the code of RFF, MAP or Remaining part<sup>22</sup>.

See Figure 17 as an example of organization of Z-axis in case of templates dedicated to RFF/MAP reporting.



**Figure 17. Organization of Z-axis in case of templates dedicated to RFF/MAP reporting**

### V.3.2 Application of Article 112

Article 112 provides to NCAs a possibility to request from filer figures calculated according to standard formula even when more complex approaches were already approved<sup>23</sup>. This option was introduced by EIOPA to the DPM using 'AO' dimension on a Z-axis. This dimension refers to hierarchy of 'AO' domain with two potential options:

<sup>21</sup> In some tables also other option is possible: 'Ring fenced fund or Matching adjustment portfolio'.

<sup>22</sup> Must be noted that the scope of 'Remaining part' is the same, no matter of number of RFFs or MAPs reported.

<sup>23</sup> Under this scenario for example template S.25.01 could be requested together with S.25.05, but S.25.01 according to article 112.

- See Figure 18 as an example of organization of Z-axis in case of templates for which article 112 could be potentially applied.

**Figure 18. Organization of Z-axis in case of templates for which article 112 could be potentially applied**

Modelling Solvency II, Pension Funds, Financial Conglomerates and Pan-European Personal Pension Products KID and PR reporting requirement quite often it was necessary to split between different tables information that initially was perceived to be homogenous. The reason was that for some facts business table was supposed to be closed (i.e. small explicit list of countries), for the other – open (i.e. list of other countries). At the same time it was a role of DPM not to allow reporting of countries from closed table in the open one. To solve the challenge EIOPA decided in the second case to refer from a dimension on an open axis to the dedicated subset of countries. Figure 19 presents the organisation of template dedicated to 'Health Catastrophe risk - Concentration accident'.

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email: [xbri@eiopa.europa.eu](mailto:xbri@eiopa.europa.eu); Website: [www.eiopa.europa.eu](http://www.eiopa.europa.eu)

**Figure 19. Organisation of template dedicated to 'Health Catastrophe risk - Concentration accident' reporting for both: closed and open list of countries**

**V.3.4 Introduction of T.99.01.01 technical template**

One of the issues which may prevent to report all requested data could be due to the DPM modelling describing two separate business concepts as a single datapoint. As a consequence there would be just a single container while filer would have to report two separate facts.

T.99.01.01  
Technical table

T.99.01.01.01  
Technical table

Table C0010	X axis C0020	Y axis C0030	Z axis C0040	Comment C0050	Monetary C0060	String C0070	Date C0080	Integer C0090	Decimal C0100	Pure C0110	Boolean C0120
*artificial	*artificial	*artificial	*artificial	Metric: String TS/Comment to technical table	Metric: Monetary	Metric: String	Metric: Date	Metric: Integer	Metric: Decimal	Metric: Pure	Metric: Boolean

YM: T.99.01.01.01 line  
Identification (Table)

YN: T.99.01.01.01 line  
Identification (X axis)

YO: T.99.01.01.01 line  
Identification (Y axis)

YR: T.99.01.01.01 line  
Identification (Z axis)

**Figure 20. T.99.01.01.01 technical table**

In order to provide a workaround (instead issuing a full taxonomy hotfix with more impact on systems) a technical container to be used for such a case was defined: T.99.01.01 (Figure 20). Systems should be designed taking into account that this table may need to be used, however if the needs arrive a full description of how to use it to overcome the specific issue would be published by EIOPA. In order to prevent the unintentional use of this table T.99, as normally is no to be used, the taxonomy includes a set of validations (TV60-TV65<sup>24</sup>) preventing reporting of data which will be deactivated only if the needs arrive. Please also note that in no case new business data is required, but this is only allowing to submit the required data that when is not possible to be done with the regular tables.

As an overview of the functionality of the table please note that it consists of three sets of information:

- reference to potential placeholder for a given fact. It is organized as a combination of four typed dimension:
  - dimension defining the table where the fact should have been displayed, e.g. 'S.02.01.01.01',

<sup>24</sup> Note, that most technical validations were reassessed and recodified to Business Validations (BV)



- dimension defining a column (X axis), e.g. 'C0010',
  - dimension defining a row (Y axis), e.g. 'R0020'<sup>25</sup>,
  - dimension giving information on the Z axis<sup>26</sup>.
- fact itself in a column dedicated to particular datatype of potential fact to be reported,
  - comments.

The solution is flexible enough to explicitly define and provide any missing fact. Equivalent tables were introduced for the PF and PEP models.

## VI Differences introduced with adopting ATOME: Matter

Starting from 2.8.0 release EIOPA generates the XBRL taxonomy using metadata management platform. Excel files are not treated anymore as a dedicated input to this process, but only as one of outputs, next to DB or XBRL taxonomy. Although the DPM metamodel stays the same, organization of the output Excel files was modified and improved. In this chapter the changes in the DPM Dictionary and Annotated Templates structure will be described in detail.

### VI.1.1 Changes in EIOPA DPM Dictionary

EIOPA DPM Dictionary follows most of the layout defined in the previous releases. The dictionary elements are presented in multiple worksheets.

#### VI.1.1.1 Primary items

The main differences for metrics can be summarised briefly as follows:

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<sup>25</sup> In case of open tables detailed solution regarding Y axis for given issue will be described in the 'List of known issues' document available on EIOPA webpage.

<sup>26</sup> In case where it would be necessary to provide information about Z-axis detailed solution for given issue will be described in the 'List of known issues' document available on EIOPA webpage.

- Metric MD and HD are now presented in single worksheet with an additional dedicated column to distinguish them and are now linked to their assigned owner,
- Column 'Name' was rephrased to 'Code', to clarify content of this field and reduce the confusion among users when comparing to 'Label' column<sup>27</sup>,
- The domain information is provided only to enum:enumerationItemType metrics. Six additional columns, grouped in pairs, are referenced in those cases:
  - Referenced domain owner and code – identifying a domain from which the list is provided, together with its assigned owner,
  - Referenced hierarchy owner and code – identifying a relationship set of domain members that are potential value of a metric. The set can be of nested structure,
  - Referenced member owner and code (optional) - it identifies, in case of nested relationship, sets starting nodes that are excluded from the set of selected values (i.e. if it is x0, then it means that children of x0 ("Total/NA") are available values, but x0 ("Total/NA") itself is not),
  - Is starting included column – connected with the referenced member column; indicates if the sets starting nodes are included in the set. In case of FALSE value, the Referenced member (owner) columns should be filled.
- Due to the limitations of the enumeration metric allowing only single choice options, a number of xbrli:stringItemType metrics were created to refer to specific hierarchies, allowing the possibility of reporting multiple choice values. Information on which metrics are multiple choice ones, was indicated by the red font of hierarchy reference. In the current approach, this information can be found in the "description" column and is described as Multiple-choice list based on hierarchy {domain code}\_{hierarchy number}.

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<sup>27</sup> This change is consisted in other sections of the dictionary

Label (en)	Code	Description (en)	Type	Owner	Data type	Referenced domain	Referenced domain	Referenced hierarchy	Referenced hierarchy	Referenced member	Referenced member	Is starting included	Period type	Balance type	Creation date
Metric: Monetary (BC) Over Funds (BE) Ancillary own funds (OF) Supplementary members calls - other than under Article 96(2) of the Framework Directive	m12		s2c	monetary											07/07/2014
Metric: (Re)insurance Sole requirements (Full scope)	m1341		s2c	enumerator s2c	CN	s2c	CN/15					TRUE	instant		30/09/2015
Metric: String TS Item title	m1338		s2c	string									instant		07/07/2014
Metric: Monetary (BC) Profit reserves	m1337		s2c	enumerator s2c	CN	s2c	CN/15					TRUE	instant		30/09/2015
Metric: Monetary (BC) Standard formula (BC) Exposure (PO) Ring Fenced Funds	m1336		s2c	monetary									instant		07/07/2014
Metric: Monetary (BC) Liability (LB) Debt instruments (see subordinated) (SB) Collateral pledged	m1335		s2c	monetary									instant		07/07/2014
Metric: Monetary (BC) Unaccounted (VP) Expenses cash outflows (BC) Projection of future cash flows (LB) Gross technical provisions (other than local GA) m1237	m1334		s2c	monetary									instant		30/09/2015
Metric: Monetary (BC) Over Funds (BE) Basic own funds (MF) Not available to meet SCR criteria (OF) Over Funds (before deductions) (other than reconciliations)	m1333		s2c	monetary									instant		07/07/2014
Metric: String TS Name of insured entity	m1332		s2c	string									instant		07/07/2014
Metric: Underlying security	m1331		s2c	enumerator s2c	PC	s2c	PC/2					TRUE	instant		07/07/2014
Metric: Monetary (BC) Assets (AR) Recoverables (CO) Other than investment, own use, own instruments held directly and cash and cash equivalents (OT) m1272	m1330		s2c	monetary									instant		07/07/2014
Metric: Monetary (BC) Standard formula (BC) Solvency capital requirement (SCR) (PO) Other than ring fenced funds (LB) Before diversification effect (other than)	m1294		s2c	monetary									instant		30/09/2015
Metric: Monetary (BC) Discounted (LB) Full internal model (BC) Premiums written	m1290		s2c	monetary									instant		15/07/2023
Metric: Monetary (BC) Assets (AR) Mortgage and loans	m1275		s2c	monetary									instant		30/09/2015
Metric: Monetary (BC) Solvency (I) (BC) Exposure (TT) Assets whose risks are mainly borne by the policyholders	m1273		s2c	monetary									instant		15/07/2023
Metric: Monetary (BC) Solvency (I) (BC) Premium income (ON) Year to Date (CO) Not coded	m1267		s2c	monetary									instant		15/07/2023
Metric: Monetary (BC) Standard formula (BC) Solvency capital requirement (SCR) (PO) Ring Fenced Funds (AB) Scenarios (I) (TT) Risk mitigation cost for reinstatement	m1278		s2c	monetary									instant		07/07/2014
Use of sliding scale commission	m168		s2c	enumerator s2c	AP	s2c	AP/48					TRUE	instant		15/07/2023
Property type	m165		s2c	enumerator s2c	MC	s2c	MC/98					TRUE	instant		15/07/2023
Metric: Original currency of exposure/transaction/instrument	m1324		s2c	enumerator s2c	CU	s2c	CU/3			s2c	40	FALSE	instant		07/07/2014
Metric: Solvency Capital Requirement - Simplifications (Third country branches)	m1306		s2c	enumerator s2c	CN	s2c	CN/139					TRUE	instant		15/07/2023
Valuation method (Full scope)	m1351		s2c	enumerator s2c	VM	s2c	VM/23					TRUE	instant		30/09/2015
Metric: Monetary (BC) Solvency (I) (BC) Over Funds (BE) Ancillary own funds	m1205		s2c	monetary									instant		30/09/2015
Metric: Pure (PPI) Asset/underwriter rate contract	m1242		s2c	percentage									instant		07/07/2014
Metric: String TS Pension fund name	m1529		s2c	string									instant		01/11/2018
Metric: Monetary (BC) Solvency (I) (BC) Liability (LB) Gross technical provisions (other than local GAAP specific) (CC) Ceded	m1239		s2c	monetary									instant		07/07/2014
Metric: Internal model for life and health risk (Group)	m1278		s2c	enumerator s2c	CN	s2c	CN/134					TRUE	instant		15/07/2023
Metric: String TS Solvency Capital Requirement - P90 TS Template reporting status	m1471		s2c	string									instant		07/07/2014
Metric: Monetary (BC) Standard formula (BC) Solvency capital requirement (SCR) (PO) Other than ring fenced funds (RT) Aviation	m1461		s2c	monetary									instant		07/07/2014
Metric: Monetary (BC) Unaccounted (VP) Future guaranteed and discretionary benefits (BC) Projection of future cash flows (LB) Premium provisions (other than)	m178		s2c	monetary									instant		07/07/2014
Metric: String TS Standard formula (BC) Single name exposure	m173		s2c	string									instant		07/07/2014
Metric: Monetary (BC) Over Funds (BE) Basic or ancillary own funds (E) (Not restricted) (MF) Available to meet SCR criteria	m1415		s2c	monetary									instant		07/07/2014
Metric: Facultative covers for non-life and life business shares data (280)	m1287		s2c	enumerator s2c	CN	s2c	CN/142					TRUE	instant		15/07/2023
Participation (Group)	m118		s2c	enumerator s2c	PU	s2c	PU/14			s2c	40	FALSE	instant		07/07/2014
Metric: RIF (Preparatory scope)	m1516		s2c	enumerator s2c	PU	s2c	PU/12			s2c	40	FALSE	instant		07/07/2014
CN/16 members (2)	m136		s2c	enumerator s2c	CN	s2c	CN/2					TRUE	instant		07/07/2014
Metric: Boolean (B) Simplifications for counterparty default risk used (PO) Ring Fenced Funds	m140		s2c	boolean									instant		07/07/2014
Metric: Monetary (BC) Standard formula (BC) Solvency capital requirement (SCR) (RT) Marine platform explosion (TT) Other risk mitigation (risk mitigation cost)	m1452		s2c	monetary									instant		07/07/2014
Metric: Solvency Capital Requirement - Life underwriting risk (Full scope individual) (220)	m1493		s2c	enumerator s2c	CN	s2c	CN/124					TRUE	instant		15/07/2023
Solvency Capital Requirement - health underwriting risk (Third country branches)	m1495		s2c	enumerator s2c	CN	s2c	CN/152					TRUE	instant		15/07/2023
Metric: String TS Number of fund	m1551		s2c	string									instant		07/07/2014
Metric: Monetary (BC) Solvency (I) (BC) Rape and securities lending	m1159		s2c	monetary									instant		07/07/2014
Metric: Monetary (BC) Over Funds (BE) Basic own funds (MF) Basic own funds (MF) Not available to meet SCR criteria (other than due to local restrictions)	m1430		s2c	monetary									instant		07/07/2014
Metric: Decimal (DC) Age of underwritten loans	m1289		s2c	decimal									instant		30/09/2015
List of assets (Pension funds, including option for non-ORP)	m1030		s2c	enumerator s2c	CN	s2c	CN/504					TRUE	instant		01/11/2018
Metric: Monetary (BC) Contributions receivable	m1063		s2c	monetary									instant		01/11/2018
Metric: Monetary (BC) Solvency (I) (BC) Over Funds (BE) Basic or ancillary own funds (MF) Eligible to meet SCR criteria	m1666		s2c	monetary									instant		07/07/2014
Metric: Monetary (BC) Over Funds (LB) Controlling interests (BE) Basic own funds (MF) Not available to meet SCR criteria (other than due to local restrictions)	m1294		s2c	monetary									instant		07/07/2014
Metric: Solvency Capital Requirement - Life underwriting risk (Full scope individual)	m1748		s2c	enumerator s2c	GA	s2c	GA/51					TRUE	instant		30/09/2015
Metric: Issuer country (Full scope) (280)	m1555		s2c	enumerator s2c	GA	s2c	GA/35					TRUE	instant		15/07/2023

Figure 21. Structure of metrics worksheet in EIOPA DPM Dictionary

## VI.1.1.2 Domains worksheet

Domain presentation stayed largely unchanged, with the removal of redundant Namespace field.

Label (en)	Code	Description (en)	Type	Owner	Data type	Creation date	Valid from	Valid to	Last modification
Time intervals	TI		explicit	s2c		07/07/2014			
Types of percentage	PP		explicit	s2c		07/07/2014			
Rating grades	EI		explicit	s2c		15/07/2023			
Status of claim	SC		explicit	s2c		07/07/2014			
Exposure types	EX		explicit	s2c		07/07/2014			
Geographical areas	GA		explicit	s2c		07/07/2014			
Risk types	RT		explicit	s2c		07/07/2014			
Lines of businesses	LB		explicit	s2c		07/07/2014			
Languages	LA		explicit	s2c		30/09/2015			
Brackets	BR		explicit	s2c		07/07/2014			
Eligibility	EL		explicit	s2c		07/07/2014			
Datapoint Owner	DO		explicit	s2c		07/07/2014		31/12/2013	
Treatment of risk mitigation	TR		explicit	s2c		07/07/2014			
Types of string	TS		explicit	s2c		07/07/2014			
Valuation methods	VM		explicit	s2c		07/07/2014			
Purposes of assets/portfolio	PU		explicit	s2c		07/07/2014			
Types of boolean	BT		explicit	s2c		07/07/2014			
Templates	TP		explicit	s2c		07/07/2014		31/12/2013	
Instant or duration	DI		explicit	s2c		07/07/2014			
Content	CN		explicit	s2c		07/07/2014			
Controlling or minority interests	CM		explicit	s2c		07/07/2014			
Consolidation scopes	CS		explicit	s2c		07/07/2014			
Currencies	CU		explicit	s2c		07/07/2014			
Amount types	AM		explicit	s2c		07/07/2014			
Types of number	NT		explicit	s2c		07/07/2014			
NACE	NC		explicit	s2c		07/07/2014			
Types of trigger	LT		explicit	s2c		07/07/2014			
Main categories	MC		explicit	s2c		07/07/2014			
Approaches used	AP		explicit	s2c		07/07/2014			
Article 112 and 167	AO		explicit	s2c		07/07/2014			
Names	NA		typed	s2c	string	07/07/2014			
Line identification	NB		typed	s2c	string	07/07/2014			15/07/2018
Codes	ID		typed	s2c	string	07/07/2014			
Agencies	RA		typed	s2c	string	07/07/2014			
Types	TY		typed	s2c	string	07/07/2014			
Ratings	ER		typed	s2c	string	07/07/2014			
Metric domain	MET		metric	Technical					

Figure 22. Structure of domains worksheet in EIOPA DPM Dictionary

## VI.1.1.3 Dimensions worksheet

The main amendment concerns the mention of “dimension in MD” in the description column. Given the changes in the Annotated templates and the fact, that this excel is an output of the XBRL generation process, not the input, the information is provided after the model is created. It is worth to note however, that the rules for Dimension to be assigned as not applicable or “Dimension in MD closed” have not changed<sup>28</sup>.

Label (en)	Code	Description (en)	Owner	Domain owner	Domain code	Creation date	Valid from	Valid to	Last modification
Availability of excess of assets over liabilities for RIF or MP	AA		i2i	i2i	EL	07/07/2014			30/09/2015
Risk scenario	AB		i2i	i2i	RT	07/07/2014		31/12/2013	
SPV authorisation conditions	AC		i2i	i2i	TB	07/07/2014		31/12/2013	
Prospective or retrospective	AD	Dimension in MD Closed	i2i	i2i	AM	07/07/2014		15/07/2017	
Article 346	AE		i2i	i2i	AP	30/09/2015		31/12/2013	
Currency conversion approach	AF	Dimension in MD Closed	i2i	i2i	CA	30/09/2015			
Changes in own funds	AG	Dimension in MD Closed	i2i	i2i	VM	07/07/2014			
Country of authorisation	AH		i2i	i2i	GA	07/07/2014		31/12/2013	
Type of claim	AI		i2i	i2i	SC	07/07/2014			
Type of assets and/or liabilities	AL		i2i	i2i	MC	07/07/2014			
Article 112	AO	Dimension in MD Closed	i2i	i2i	AD	07/07/2014			
Age of PEPF saver	AP	Dimension in MD Closed	i2i	i2i	TI	15/07/2021			
Securitisation assets related and not related to cedant held in trust with other third party than cedant/sponsor	AR		i2i	i2i	PU	07/07/2014		31/12/2013	
Type of assets	AS		i2i	i2i	MC	07/07/2014			
Article 147	AT		i2i	i2i	AD	30/09/2015		31/12/2013	
Applicable standard	AX	Dimension in MD Closed	i2i	i2i	AM	07/07/2014			
Activity of broker	AY		i2i	i2i	TB	07/07/2014		31/12/2013	
Group identification code	AZ	Dimension in MD closed property is not applicable	i2i	i2i	ID	07/07/2014			
Assets value brackets	BA		i2i	i2i	BR	01/11/2018		30/09/2015	
Basic concepts	BC		i2i	i2i	BC	07/07/2014			
Solvency II own funds eligibility	BE		i2i	i2i	EL	07/07/2014			
Countries by amount of gross premiums written	BI	Dimension in MD Closed	i2i	i2i	GA	07/07/2014			
Line of business (general)	BL	Dimension in MD Closed	i2i	i2i	LB	07/07/2014			
Types of boolean	BX		i2i	i2i	BT	07/07/2014			
Code broker	CA	Dimension in MD closed property is not applicable	i2i	i2i	ID	07/07/2014			
Insurance classes	CB		i2i	i2i	LB	07/07/2014			
Ceded and not ceded	CC		i2i	i2i	TB	07/07/2014			
Currency delivered/settlement/obligation currency	CD	Dimension in MD Closed	i2i	i2i	CU	07/07/2014		31/12/2013	
Identification code of entity	CE	Dimension in MD closed property is not applicable	i2i	i2i	ID	07/07/2014			
CIC code	CF	Dimension in MD closed property is not applicable	i2i	i2i	ID	07/07/2014		31/12/2013	
Collateral/guarantee	CG		i2i	i2i	CG	07/07/2014		30/09/2015	
Change of status during the period	CH		i2i	i2i	SC	07/07/2014			
Code of guarantee	CI	Dimension in MD closed property is not applicable	i2i	i2i	ID	07/07/2014			
Country of custody	CJ		i2i	i2i	GA	07/07/2014		31/12/2013	
5.23.04.22.01 line identification	CK	Dimension in MD closed property is not applicable	i2i	i2i	CN	07/07/2014		15/07/2017	
Composite limited CIC code of underlying	CL	Dimension in MD closed property is not applicable	i2i	i2i	ID	07/07/2014		31/12/2013	
Method of consolidation	CM	Dimension in MD Closed	i2i	i2i	CS	30/09/2015			
Content	CN		i2i	i2i	CN	07/07/2014		31/12/2013	
Counterparty ID	CO	Dimension in MD closed property is not applicable	i2i	i2i	ID	07/07/2014		31/12/2013	
5.23.04.22.02 line identification	CP	Dimension in MD closed property is not applicable	i2i	i2i	ID	07/07/2014		15/07/2017	15/07/2018
Currency received	CQ	Dimension in MD Closed	i2i	i2i	CU	07/07/2014		31/12/2013	
Consolidation scope	CR	Dimension in MD Closed	i2i	i2i	CS	07/07/2014			
Counterparties	CT		i2i	i2i	SE	07/07/2014			
Code collateral/guarantee provider	CV	Dimension in MD closed property is not applicable	i2i	i2i	ID	07/07/2014			30/09/2015

**Figure 23. Structure of dimensions worksheet in EIOPA DPM Dictionary**

#### VI.1.1.4 Domain worksheet

Domain worksheet follows the current structure, both for list of domain members and hierarchical relations between them. Each relationship set (hierarchy) is described by its domain code, number, and label (i.e. “2: Tiers” in EL domain). The relationship set structure remained unchanged. The only notifiable differences are the removal of the information on applicability of specific dimension or assignment to certain tables and information on the usability of certain hierarchy nodes. The information about the association of a subdomain with certain dimensions was indicative from the outset and was intended to give context for its creation. It did not, however, affect the operation of the model itself<sup>29</sup>. Similarly, the information about the use of a given hierarchy as a semi-open axis in a specific table. Both pieces of information were therefore of limited analytical value, while carrying a significant risk of error and imposing an additional

<sup>28</sup> The rules are described in detail in section IV.2 MD and HD versions of the DPM.

<sup>29</sup> Although it was reflected in the XBRL taxonomy in the form of dedicated label.

maintenance burden<sup>30</sup>. The other difference can be found in the explicit use of usable attribute for both values. The non-usable cases are identified with „FALSE” in „Usable” column, while the rest of the elements have „TRUE” attribute assigned.

Label (en)	Code	Description (en)	Owner	Default	Creation date	Valid from	Valid to	Last modification	Hierarchy (en)	Hierarchy member code	Hierarchy member owner	Hierarchy node label (en)	Hierarchy node description (en)	Sign	Weight	Usable	Hierarchy creation date
Unencumbered	x25		a25		30/09/2015				CG-10: Internal L&B premium risk indicator	x25	a25						15/07/2023
On policies	x18		a25		07/07/2014		30/09/2015		Yes [Y]	x25	a25	1 - Assigned to premium risk				TRUE	07/07/2014
Not collateral	x15		a25		07/07/2014				No [N]	x13	a25	2 - Not assigned to premium risk				TRUE	07/07/2014
Guaranteed minimum withdrawal benefits (SMWB)	x12		a25		07/07/2014				CG-14: Unlimited guarantees provided	x40	a25	0 - No unlimited guarantees provided				TRUE	15/07/2023
Partial [P]	x20		a25		07/07/2014				Unlimited guarantees provided from group	x43	a25	1 - Unlimited guarantees provided only to entities of the same group				TRUE	15/07/2023
Other	x28		a25		30/09/2015				Underwriting is not a part of group	x42	a25	2 - Unlimited guarantees provided only to entities not belonging to the same group				TRUE	15/07/2023
Yes [Y]	x29		a25		07/07/2014				Underwriting is not a part of group	x42	a25	3 - Unlimited guarantees provided to entities of the same group and to entities not belonging to same group				TRUE	15/07/2023
SPV not sufficiently collateralised	x23		a25		07/07/2014				Unlimited guarantees provided	x45	a25	0 - No unlimited guarantees received				TRUE	15/07/2023
Without mortgages	x5001		a25		01/11/2018				CG-15: Unlimited guarantees received	x45	a25	1 - Unlimited guarantees received only from entities of the same group				TRUE	15/07/2023
Unlimited guarantees received from group	x41		a25		15/07/2023				No unlimited guarantees received	x39	a25	2 - Unlimited guarantees received only from entities not belonging to the same group				TRUE	15/07/2023
Encumbered	x29		a25		30/09/2015				Unlimited guarantees received from group	x41	a25	3 - Unlimited guarantees received from entities of the same group and from entities not belonging to the same group				TRUE	15/07/2023
Collateral for securities borrowed (CB)	x3		a25		07/07/2014				Underwriting is not a part of group	x42	a25					TRUE	15/07/2023
Full capital protection	x7		a25		07/07/2014				Unlimited guarantees received	x44	a25					TRUE	15/07/2023
No unlimited guarantees provided	x40		a25		15/07/2023		30/09/2015		CG-12: Internal L&B premium risk indicator	x25	a25	1 - Assigned to reserve risk				TRUE	15/07/2023
Other than on policies and not collateralised	x19		a25		07/07/2014				Yes [Y]	x25	a25	2 - Not assigned to reserve risk				TRUE	15/07/2023
Collateral for reinsurance accepted (CR)	x2		a25		07/07/2014				No [N]	x13	a25					TRUE	15/07/2023
Guaranteed	x8		a25		07/07/2014			15/07/2022	Guaranteed	x6	a25	1 - Provides a guarantee. At retirement you will at least be able to recoup all the money you put in over time (minus any costs and chs.				TRUE	07/07/2014
No [N]	x13		a25		07/07/2014				CG-10B: Am my savings guaranteed	x25	a25	2 - Does not provide a guarantee, but takes the form of a risk-mitigation technique consistent with the objective to allow the PSPF act.				TRUE	15/07/2021
SPV sufficiently collateralised	x23		a25		07/07/2014				No guaranteed	x39	a25					TRUE	15/07/2021
Guaranteed minimum accumulation benefit (SMAB)	x9		a25		07/07/2014				CG-60: Collateralised with mortgage or not	x26	a25					TRUE	15/11/2018
Collateral	x1		a25		07/07/2014		31/12/2013		Total risk	x7	a25	Total risk				TRUE	07/07/2014
Underwriting is not a part of group	x40		a25		15/07/2023				With mortgages	x5000	a25	With mortgages				TRUE	15/11/2018
Collateral pledged (CP)	x4		a25		07/07/2014				Without mortgages	x5001	a25	Without mortgages				TRUE	15/11/2018
Full capital protection	x7		a25		07/07/2014				CG-11: Collateral portfolio (Full scope)	x43	a25					TRUE	07/07/2014
Collateralised/guaranteed	x6		a25		07/07/2014		31/12/2013		Collateralisation performed on a portfolio basis	x26	a25	1 - Collateral calculated on the basis of net positions resulting from a set of contracts				TRUE	07/07/2014
Unlimited guarantees provided	x40		a25		15/07/2023				Collateralisation performed on a single contract basis	x27	a25	2 - Collateral calculated on the basis of a single contract				TRUE	07/07/2014
Guaranteed minimum income benefit (SMIB)	x11		a25		07/07/2014				No collateral	x31	a25	10 - No collateral				TRUE	30/09/2015
Total risk	x7		a25	TRUE	07/07/2014				CG-10: Encumbrance	x25	a25					TRUE	30/09/2015
Collateralisation performed on a portfolio basis	x26		a25		07/07/2014				Encumbered	x29	a25	Encumbered				TRUE	30/09/2015
Repsa [P]	x22		a25		07/07/2014				Unencumbered	x30	a25	Unencumbered				TRUE	30/09/2015
Unlimited guarantees received	x44		a25		15/07/2023				CG-9: Types of guarantee (Full scope)	x26	a25					TRUE	30/09/2015
No collateral	x31		a25		30/09/2015				Guaranteed minimum death benefit (SMDB)	x10	a25	1 - Guaranteed minimum death benefit				TRUE	07/07/2014
No unlimited guarantees received	x39		a25		15/07/2023				Guaranteed minimum accumulation benefit (SMAB)	x9	a25	2 - Guaranteed minimum accumulation benefit				TRUE	07/07/2014
Not sensitive [NS]	x7000		a25		07/07/2014				Guaranteed minimum income benefit (SMIB)	x11	a25	3 - Guaranteed minimum income benefit				TRUE	07/07/2014
Not guaranteed	x7000		a25		15/07/2023				Guaranteed minimum withdrawal benefits (SMWB)	x12	a25	4 - Guaranteed minimum withdrawal benefits				TRUE	07/07/2014
With mortgages	x5000		a25		01/11/2018				Other	x28	a25	9 - Other				TRUE	30/09/2015
Collateralisation performed on a single contract basis	x27		a25		07/07/2014				CG-6: Collateral portfolio	x43	a25					TRUE	07/07/2014
Partial capital protection	x21		a25		07/07/2014				Collateralisation performed on a portfolio basis	x26	a25	Collateralisation performed on a portfolio basis				TRUE	07/07/2014
Guaranteed minimum death benefit (SMDB)	x10		a25		07/07/2014		31/12/2013		Collateralisation performed on a single contract basis	x27	a25					TRUE	07/07/2014
Not collateralised/guaranteed	x10		a25		15/07/2023				CG-7: Hedge application	x25	a25	1 - Hedged				TRUE	07/07/2014
Unlimited guarantees provided from group	x43		a25		15/07/2023				Yes [Y]	x25	a25	2 - Not hedged				TRUE	07/07/2014
Collateralised	x6		a25		07/07/2014		31/12/2013		No [N]	x13	a25	3 - Partially hedged				TRUE	07/07/2014
			a25						Partly [P]	x28	a25	4 - Guarantee not sensitive to				TRUE	07/07/2014
			a25						Not sensitive [NS]	x17	a25					TRUE	07/07/2014
			a25						CG-8: Types of guarantee (Reparatory scope)	x5	a25	Total risk				TRUE	07/07/2014
			a25						Total risk	x7	a25					TRUE	07/07/2014
			a25						Guaranteed minimum death benefit (SMDB)	x10	a25	Guaranteed minimum death benefit (SMDB)				TRUE	07/07/2014
			a25						Guaranteed minimum accumulation benefit (SMAB)	x9	a25	Guaranteed minimum accumulation benefit (SMAB)				TRUE	07/07/2014
			a25						Guaranteed minimum income benefit (SMIB)	x11	a25	Guaranteed minimum income benefit (SMIB)				TRUE	07/07/2014
			a25						Guaranteed minimum withdrawal benefits (SMWB)	x12	a25	Guaranteed minimum withdrawal benefits (SMWB)				TRUE	07/07/2014

Figure 24. Structure of domain worksheets in EIOPA DPM Dictionary

## VI.1.2 General remarks to the Annotated Templates

Most of the changes to the structure of the Annotated Templates is a consequence of the new approach to the XBRL taxonomy generation, where Annotated Templates in MS Excel are outputs, not inputs. Part of the changes in their layout is the switch from presenting the annotated metrics as Highly Dimensional to Moderately Dimensional approach. Due to this fact, the whole process of deriving a different version of the model has been reversed<sup>31</sup>. The new process involves breaking down the MD into an HD metric and dimension-domain member pairs, separated by a vertical bar. EIOPA would like to point out that, despite the change, the process described in section IV.2 is still correct. The aim was to allow the model to be presented in the same way both in MS Excel and XBRL Taxonomy, where the second one is purely MD-oriented. As a result, it is expected to be more familiar to the filers and less error prone, as colour coding from the previous approach could bring some ambiguity and lead to omissions.

### VI.1.2.1 Organisation of Annotated Templates

<sup>30</sup> Still, this kind of information can be extracted for example from the DPM DB.

<sup>31</sup> A description of the MD and HD models, including the procedure for creating the former, is provided in detail in section IV.2 MD and HD versions of the DPM

Solvency II 2.8.0 (2023-07-15) (solvency2)		G01		G02		G04		G05		G07		G08		G11		G13		G15		G16		G17		G18		G19	
Template code		Description		Annual Solvency II reporting		Quarterly Solvency II reporting		Annual Solvency II reporting Group		Quarterly Solvency II reporting Group		Quarterly Solvency II reporting Trust		Quarterly Solvency II reporting Trust		Quarterly Solvency II reporting Trust		Quarterly Solvency II reporting Trust		Quarterly ECB reporting Solvency II		Quarterly ECB reporting Solvency II		Annual ECB reporting Trust		Quarterly ECB reporting Trust	
				acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.	acc.
G01.01.01	New template for EUCB purposes (annual and quarterly reporting, solo and trust, assets branches)																										
G01.01.02	Supervision in equity																										
G01.01.03	New template for EUCB purposes (annual reporting, solo and trust, assets branches)																										
G01.01.04	Participations in equity																										
G01.01.05	Investment expenses and expenses (part of TP and assets of assets over liabilities)																										
G01.01.06	Part of TP: Investment structure and expenses attributed to policy holder - structure, income, security and structure																										
G01.01.07	Part of TP: Investment structure and expenses attributed to policy holder - structure, income, security and structure																										
G01.01.08	Investment structure and expenses - part of assets of assets over liabilities																										
G01.01.09	Investment structure and expenses - part of assets of assets over liabilities																										
G01.01.10	Investment structure and expenses - part of assets of assets over liabilities																										
G01.01.11	Investment structure and expenses - part of assets of assets over liabilities																										
G01.01.12	Investment structure and expenses - part of assets of assets over liabilities																										
G01.01.13	Investment structure and expenses - part of assets of assets over liabilities																										
G01.01.14	Investment structure and expenses - part of assets of assets over liabilities																										
G01.01.15	Investment structure and expenses - part of assets of assets over liabilities																										
G01.01.16	Investment structure and expenses - part of assets of assets over liabilities																										
G01.01.17	Investment structure and expenses - part of assets of assets over liabilities																										
G01.01.18	Investment structure and expenses - part of assets of assets over liabilities																										
G01.01.19	Investment structure and expenses - part of assets of assets over liabilities																										
G01.01.20	Investment structure and expenses - part of assets of assets over liabilities																										
G01.01.21	Investment structure and expenses - part of assets of assets over liabilities																										

The presentation of closed tables is mostly unchanged. The only noticeable differences are presentation of the z-axes and the relations between different rows. In the previous approach, these relationships were presented using indentation, which posed a number of potential problems. Users could miss a particular indentation or get confused about the specific row level (which was particularly possible when there were more multiple indentations). Currently, this relationship is reflected through the different columns. Reported rows extend from the left side of the table up to the row code. The parent-child relationship is reflected by moving to the right towards the row code. Abstracts, on the other hand, are distinguished by their vertical structure, modelling and either the absence of their own code or code starting with 'A' (regardless of framework).

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By placing a single table in a dedicated worksheet, the table's components can now be explicitly identified and, consequently, named ranges and cell styles have been rendered redundant and removed.

An example illustrating how annotations have been applied to the templates is presented on Figure 11. As described in the III.2 DPM framework section, annotations can be applied to columns, rows, or the whole tables ("Z axis:"). Therefore, annotations in the new approach, may refer to:

- MD metrics, identified by the owner "s2md"<sup>34</sup> then word "Metric" followed by colon and dimension domain member pairs separated by vertical bar e.g. "[Metric:Monetary|DD/Undiscounted|BC/Claims paid](#)",
- Dimension-member pairs for explicit dimensions, outside of the MD metric, according to the pattern where the dimension is described as a column or row header (for the X and Y axes respectively) following "s2c\_dim:" {dimension code} "{dimension label}" pattern and the domain members described "s2c" {domain code}: {domain member code}, opening bracket {label of domain member} closing bracket, i.e. "s2c AP:x2 (Partial internal model)",
- set of explicit dimension-member pairs with identification of a subdomain that defines applicable domain members, following the pattern "s2c exp:" {domain code}-{Hierarchy number} "{Hierarchy label}" followed by information on starting domain member, „s2c\_exp:LB - 52 (Line of business (general)[210]) starting with x0 (Total/NA)",
- typed dimensions annotated as "s2c\_dim:"{dimension code} "{label of dimension}"", e.g. "s2c\_dim:NF (Number of fund)". In case of open tables, the annotation is stored within Excel note.

Note that when there are multiple variants of a template, which differ only by the "Z axis:" property, they can be combined onto one sheet using multiple "Z axis:" sections.

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<sup>34</sup> Standing for Solvency II Moderately Dimensional



5.16.01.01.02 - Annuities information

		s2c_dim:RB (Related line of business)	s2c_dim:AX (Applicable standard)	s2c_dim:CU (Original/exposure currency)	s2c_dim:AF (Currency conversion approach)
Sheets (TemporaryAxisCode_215362)	2 Axis (20001): s2c_dim:RB (Line of business [general]) s2c_dim:AX (Annuities stemming from non-life insurance contracts)   s2c_dim:TB (Insurance/reinsurance business) s2c_dim:28 (Direct Business)				
	The related non-life	s2c_exp:LB - 31 (Line			
	Accident year /		s2c_exp:AM - 8		
	Currency (20030)			s2c_exp:CU - 1	
Currency conversion					s2c_exp:CA - 1

			Undiscounted annuity	Undiscounted annuity	Annuity payments	Undiscounted annuity	Number of annuities	Best Estimate for	Undiscounted	s2c_dim:RM (Previous months/years)
			C0020	C0030	C0040	C0050	C0060	C0070	C0080	
Prior years	N-14	R0040								s2c TI:x50 (N-15 and
	N-13	R0050								s2c TI:x49 (N-14)
	N-12	R0060								s2c TI:x48 (N-13)
	N-11	R0070								s2c TI:x47 (N-12)
	N-10	R0080								s2c TI:x46 (N-11)
	N-9	R0090								s2c TI:x44 (N-10)
	N-8	R0100								s2c TI:x38 (N-9)
	N-7	R0110								s2c TI:x57 (N-6)
	N-6	R0120								s2c TI:x56 (N-7)
	N-5	R0130								s2c TI:x55 (N-6)
	N-4	R0140								s2c TI:x54 (N-5)
	N-3	R0150								s2c TI:x53 (N-4)
	N-2	R0160								s2c TI:x52 (N-3)
	N-1	R0170								s2c TI:x51 (N-2)
	N	R0180								s2c TI:x42 (N-1)
Total		R0190								s2c TI:x41 (N)
		Metrics	s2md met:mi84	s2md met:mi87	s2md met:mi83	s2md met:mi84	s2md met:ii19	s2md met:mi64	s2md met:mi84	
		s2c dim:TK (Time	s2c TF:x4 (N-1Y)							
		s2c dim:VG	s2c AM:x80 (Solvency	s2c AM:x80 (Solvency	s2c AM:x80 (Solvency	s2c AM:x80 (Solvency		s2c AM:x80 (Solvency	s2c AM:x80 (Solvency	
		s2c dim:DI (Instant or	s2c DI:x5 (Year to	s2c DI:x5 (Year to	s2c DI:x5 (Year to					
		s2c dim:VL						s2c VM:x5 (Best		
		s2c dim:TA (Types of							s2c AM:x30	

Figure 28. Example annotated table