

Meta and Data Manager

Managing Layout Annotations

v.1.0

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1. Introduction

Meta and Data Manager allows to authoring annotations with a well-defined semantic to drive the Data Browser in visualizing datasets (using data-grid, charts, maps) with a default layout.

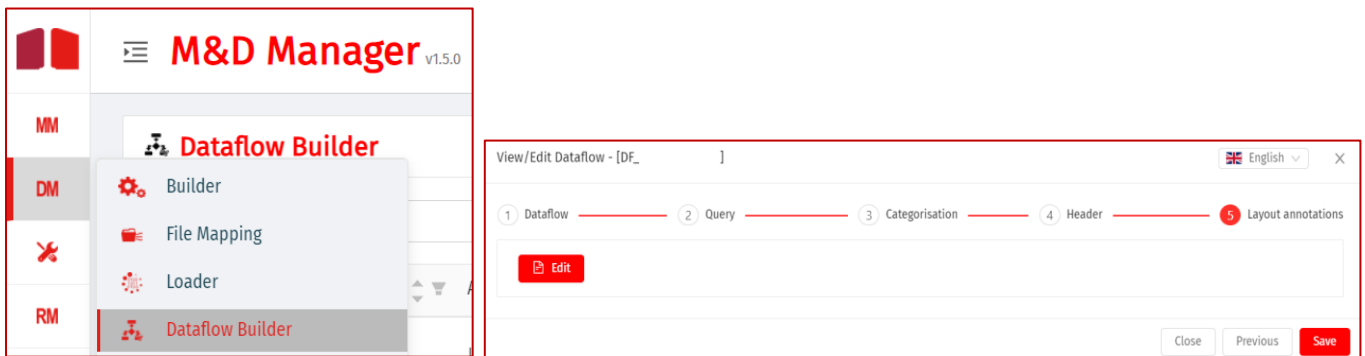
The management of these kinds of annotation are managed with the support of suitable features offered by the GUI.

When talking about annotation, we consider the possibility of setting configurations, regarding

- the visualization of single dimension or dimension's items;
- items' order;
- inclusion of keywords to the dataflow;
- row, column and section layout;
- criteria selection mode;
- territorial dimension ids;
- dataflow update and more.

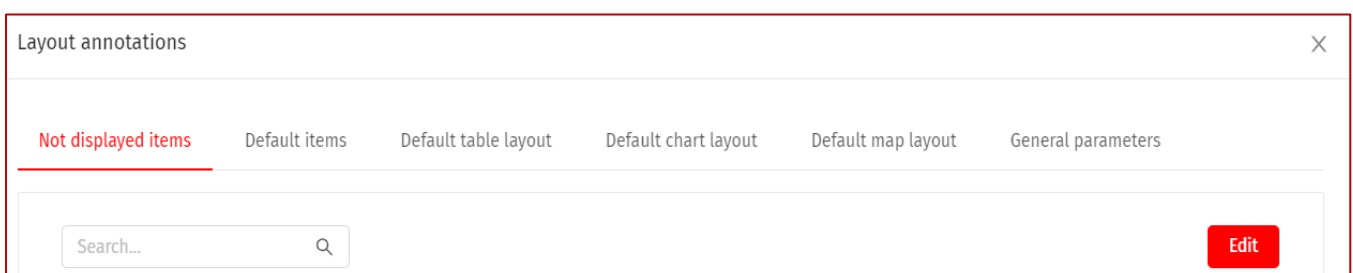
In general, for the application DataBrowser to recognize the annotations, annotations' IDs must be inserted in the node configuration under the ANNOTATION tab. For each annotation type, the correspondent ID (which must be exactly the same that appears in the metadata manager application), has to be written in the textbox.

2. Annotations in the Dataflow building



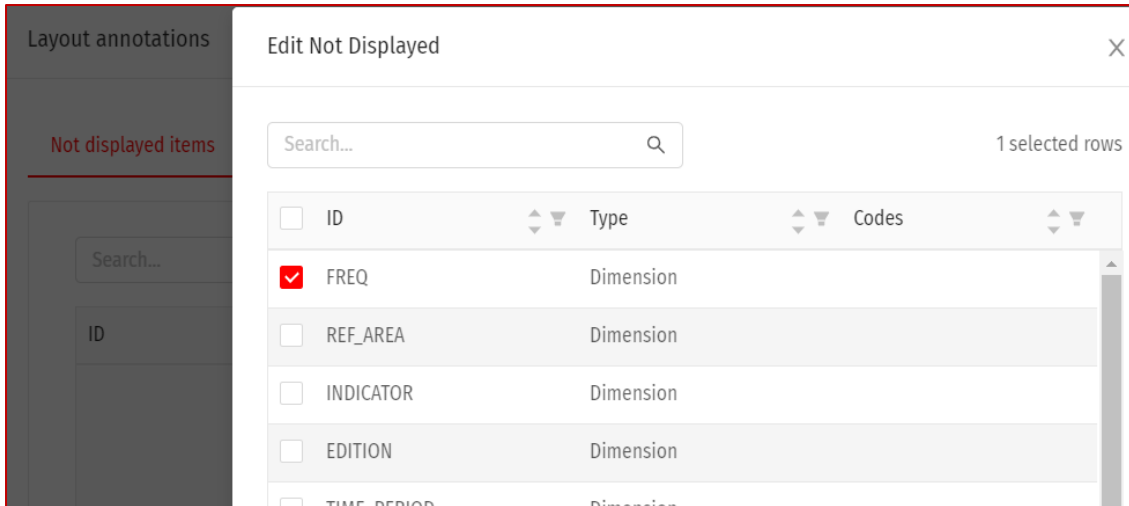
We are in the construction phase of the Dataflow, after having built the cube (*Builder*), mapped (*File Mapping*) and loaded the data (*Loader*).

In turn, the LAYOUT ANNOTATIONS consists of six submenus.

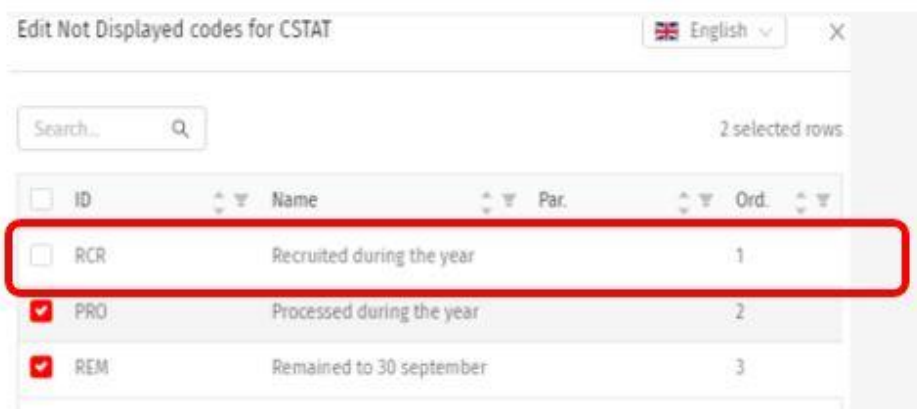


2.1 “Not displayed items” tab

Concepts, having a constant value, which are not to be displayed on the Data Browser tabular layouts are decided here. For example, the information on the periodicity of the data can be considered redundant, and therefore the FREQ dimension can be hidden.



The Administrator user can also decide to not display just some items. Indeed, If the annotation “Not Displayed” is at item level all the lines with items having this kind of annotation are not displayed.



Frequency: Annual, **Indicator type:** Number of cases

Criteria

Layout

Reference Metadata

Table

Chart

Map

Case type	Civil Affairs cases			Correctional business cases		
Court type	Cassation Courts ^[*]	1st Instance Courts ^[*]	Appeal Courts ^[*]	1st Instance Courts ^[*]	Appeal Courts ^[*]	
Time period	State of the cases					
2000	Recruited during the year	^[*] 7,068	^[*] 128,210	^[*] 23,058	^[*] 3,412	^[*] 92,149
2001	Recruited during the year	^[*] 7,664	^[*] 132,657	^[*] 23,249	^[*] 5,820	

2.2 “Default items” tab

For concepts with a non-constant value that are not arranged on the header or side, it can be decided which of the different values can be assumed as default when opening the dataset in the associated drop-down menu.

In the example, the chosen “opening” item for the dimension INDICATOR has been set to OUTFL.

Layout annotations

Not displayed items

Search...

ID

INDICATOR

Edit Default codes for INDICATOR

English

Search...

ID	Name	Par.	Ord.
<input type="checkbox"/> INFL	Migrant remittance inflows - current (nominal) US\$ million		1
<input checked="" type="checkbox"/> OUTFL	Migrant remittance outflows - current (nominal) US\$ million		2

As a result, in the Data Browser the default item offered in the drop-down menu will be OUTFL.

Remittances (*)

Frequency: Annual

Criteria

Pivoting

Table

Chart

Map

Indicator: Migrant remittance outflows - current (nominal) US\$ million

Reference area: Italy

Time period	1982	1983	1984	1985	1986	1987	1988
Edition							
October 2020	(*) 517,0	(*) 502,0	(*) 500,0	(*) 606,0	(*) 795,0	(*) 1.286,0	(*) 1.926,0
April 2020	(*) 517,0	(*) 502,0	(*) 500,0	(*) 606,0	(*) 795,0	(*) 1.286,0	(*) 1.926,0
April 2019	(*) 32,0	(*) 37,0	(*) 39,0	(*) 58,0	(*) 42,0	(*) 40,0	(*) 23,0
December 2018	(*) 32,0	(*) 37,0	(*) 39,0	(*) 58,0	(*) 42,0	(*) 40,0	(*) 23,0

Please note that the Default Item of a codelist could be set when managing a codelist in the MetaManager side.

When set that way, the default item gets overridden by the layout annotation.

General

Items

Categorisations

Derived Codelist

Search...

Set as Default Order

ID	Name	Par.	Ord.
B	basic prices		1
P	producer's prices		2
A	purchasers' prices		3
M	market prices		4

Set as Default

2.3 “Default table layout” tab

The purpose of this tab is to decide in the Meta & Data Manager the layout that must have a table in the Data Browser by default. In any case, this decision can be "overwritten" by the Data Browser administrator who can define a different template for the default layout there. When this tab is opened, the following screen appears:

As suggested by the message *“Drag here the dimensions”*, with a drag & drop operation it is necessary to move some or all of the dimensions present in “Row sections” in the three sections Filters, Rows, Columns.

Such operation will sets how dimensions must appear in table for rows, columns and sections’ configuration.

For example, you can move REF_AREA to Rows (we will therefore have the Reference Area in the side), TIME_PERIOD in Columns (we will therefore have the Time in the header), move all the other dimensions in Filters except INDICATOR which is left in Row Sections for which the Indicator will go to operate from section of the table.

The operation can be checked in the preview box on the right.

The check on the "Include these annotations in artifact" checkbox is generated automatically, and should not be removed.

Then, the default layout shown to the user when opening the dataflow will result as follows:

Edition

October 2020 ▾

Time period	2015	2016	2017	2018	2019	2020
Reference area						
Indicator: Migrant remittance inflows - current (nominal) US\$ million						
World	(*) 602.335,0	(*) 595.888,0	(*) 642.019,0	(*) 694.749,0	(*) 716.674,0	(*) 666.223,0
Low-and Middle-	(*) 447.403,0	(*) 440.065,0	(*) 479.949,0	(*) 524.901,0	(*) 547.679,0	(*) 508.485,0

2.4 “Default chart layout” tab

The purpose of this tab is to decide already in the Meta & Data Manager the layout that must have a graph in the Data Browser by default. In any case, this decision can be "overwritten" by the Data Browser administrator who can define a different template for the default layout there.

When this tab is opened, the following screen appears: TIME_PERIOD is suggested as the primary dimension.

Not displayed items
Default items
Default table layout
Default chart layout
Default map layout
General parameters

Include these annotations in artefact: ☐

Filters

FREQ
REF_AREA
INDICATOR
EDITION

Primary dimension

TIME_PERIOD

Secondary dimension

Drag here the dimensions

You can define a single primary dimension and a single secondary dimension by dragging the dimensions from the Filters area to the corresponding areas on the right side of the mask. Such operation will set how dimensions must appear in chart (primary dimension, secondary dimension and filter dimensions). The check on the "Include these annotations in artifact" checkbox is generated automatically, and should not be removed.

Not displayed items
Default items
Default table layout
Default chart layout
Default map layout
General parameters

Include these annotations in artefact: ☒

Filters

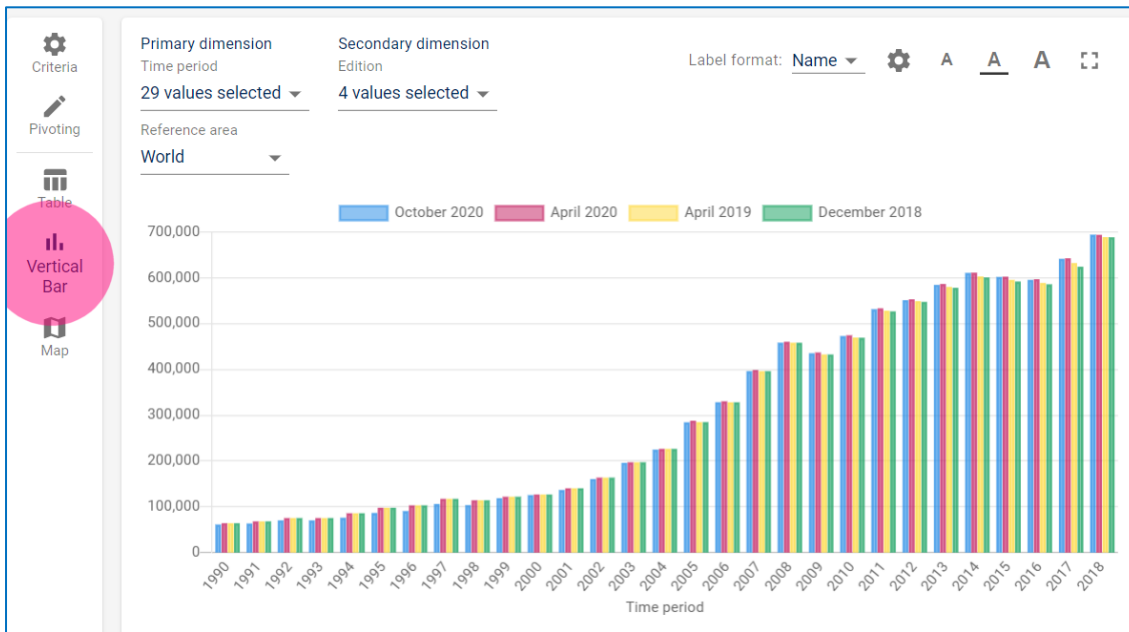
FREQ
INDICATOR
REF_AREA

Primary dimension

TIME_PERIOD

Secondary dimension

EDITION

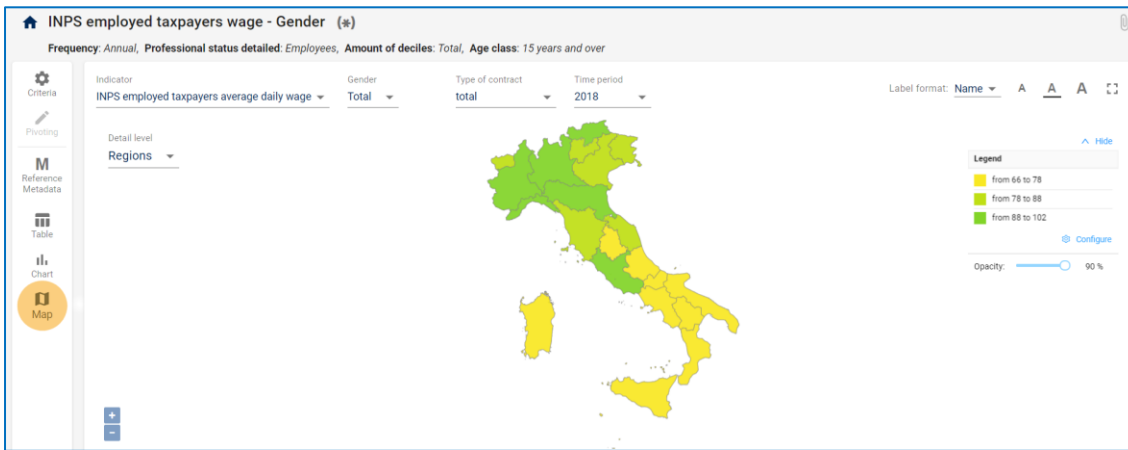


2.5 “Default map layout” tab

In the Geo ID field, which by default is “*Not specified*”, the territorial dimension of the dataflow is identified, which “turns on” the Map functionality on the Data Browser.

Please note that this option can be managed at Node level in the VIEW tab in the “*Territorial dimensions ID*” field of the Data Browser administration menu. As a matter of fact, when valuing this field, there will be no need to specify the Geo ID every time when creating a dataflow in the Data & Meta Manager.

In the Data Browser, the “Map” function is then activated.



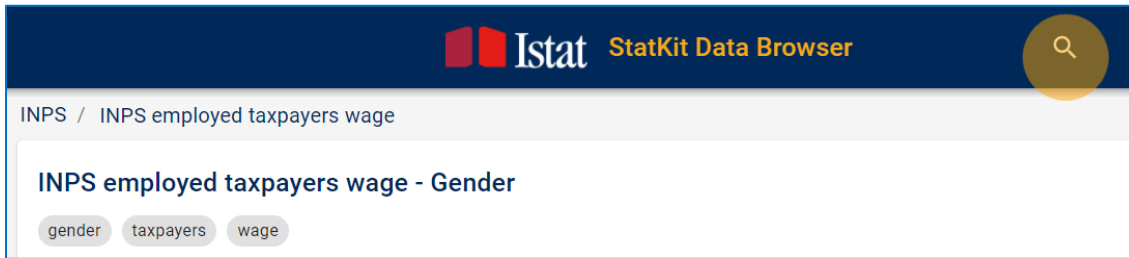
2.6 “General parameters” tab

In the sixth and last tab, you move on to setting the general parameters.

2.6.1 Keywords

Enter the relevant keywords of the dataflow (practical advice: the operation is easier by keying ENTER, once you have finished typing the term). You can also enter multiple keywords, for example “economic activity”: then, the research will be done on the entire string of the keyword and not on a subpart.

On the Data Browser, the keywords are displayed under the name of the dataflow: in addition to providing immediate information on the content of the dataflow, they will be useful in the search phase (magnifying glass).



2.6.2 Criteria selection

There are five possible choices regarding the criteria selection mode:

- **ALL_FULL**: in this case all dimensions' items are simultaneously loaded (even those that are not contained in the data) with the numerosity already present.
- **ALL_PARTIAL**: in this case only dimensions' items contained in the data are simultaneously loaded with the numerosity already present.
- **STEP_BY_STEP_DYNAMIC**: in this case case only dimensions' items contained in the data are loaded while moving from one tab's dimension to another. Furthermore, choices made in a tab affect next selections acting as filters. Numerosity is not showed at the beginning.
- **STEP_BY_STEP_FULL**: in this case all dimensions' items are loaded (even those that are not contained in the data) while moving from one tab's dimension to another. Numerosity is not showed at the beginning.
- **STEP_BY_STEP_PARTIAL**: in this case case only dimensions' items contained in the data are loaded while moving from one tab's dimension to another. Numerosity is not showed at the beginning.

IN the ENDPOINT tab of the Node configuration a "STEP_BY_STEP_DYNAMIC" type selection is specified.



Consequently, if there is no need to change this overall choice for the creating dataflow, the default value "Not specified" can be left unchanged.

2.6.3 Default View

Possible values: *Table*, *Graph*, *Map*. Here the default view to be offered when opening the dataflow is decided.

2.6.4 Decimal separator

Possible values: Not specified, Dot, Comma.

2.6.5 Number of decimals

You can leave it blank (in this case the data is presented as it was stored in the database) or you can specify how many decimals to display (leading zeros are not displayed).

2.6.6 Metadata URL

Metadata URL: EN

Here the URL of either a quality report, or a methodological note, or an internet page of interest in the field of reference metadata can be linked. In the Data Browser, the “REFERENCE METADATA” function is then activated, which allows the user to open the desired URL in a special pop-up.

Reference Metadata

1. Contact

1.1. Contact organisation	Istat, the Italian National Institute of Statistics
1.2. Contact organisation unit	Directorate for National Accounts
1.5. Contact mail address	Istat, Direzione Centrale per la Contabilit� Nazionale Via Cesare Balbo 16 00184 - Roma - Italy

2. Metadata update

2.1. Metadata last certified	24/01/2019
2.2. Metadata last posted	24/01/2019
2.3. Metadata last update	24/01/2019

3. Statistical presentation

3.1. Data description

National accounts data concern all data produced and disseminated for an economy according to the definitions and guidelines of the European System of National Accounts (ESA). National accounts provide data for the total economy, but may include breakdowns of the total economy (into sectors, industries, products, regions, etc. (main aggregates), sector accounts, financial accounts, supply and use and input-output tables, regional accounts and government finance statistics. One of the main aggregates of national accounts is the change rate of the price-adjusted gross domestic product (GDP), which indicates the economic growth. In Eurobase, countries' data are presented following the usual data structure.

At national level, data are available for :

- annual and quarterly national accounts
- annual and quarterly sector accounts
- annual financial accounts and balance sheets
- annual non-financial balance sheets

CLOSE


2.6.7 Empty cell placeholder

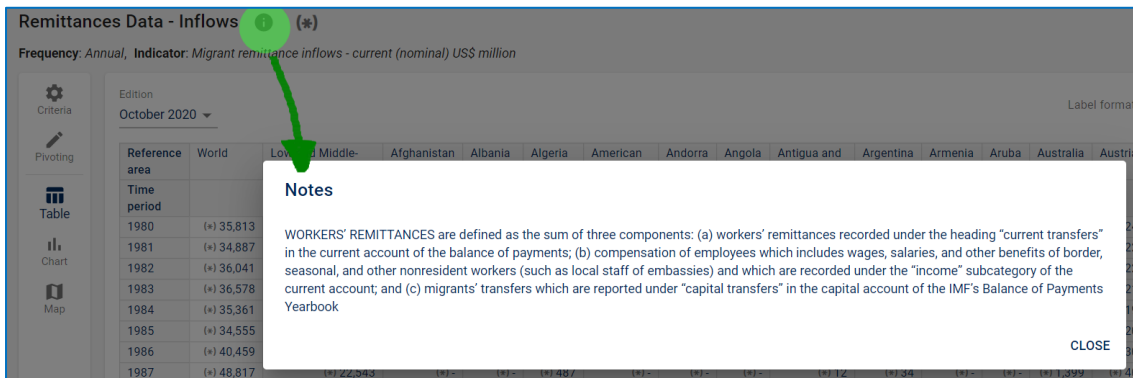
Empty cell placeholder:

If you do not want to leave empty cells visible on the Data Browser, here it is decided which symbol (usually, a dash) to adopt.

2.6.8 Dataflow notes

Dataflow notes: EN

Dataflow notes are called up in the Data Browser using a special button  that leads to the opening of a dedicated pop-up.



The screenshot shows the 'Remittances Data - Inflows' dataset in the Data Browser. A green arrow points to an information icon (i) next to the dataset title. A 'Notes' pop-up is displayed, containing the following text:

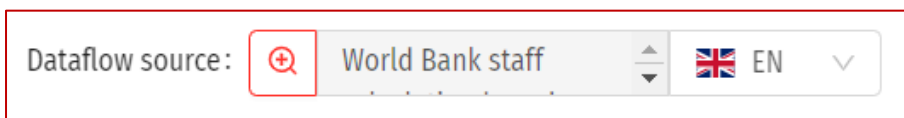
Notes

WORKERS' REMITTANCES are defined as the sum of three components: (a) workers' remittances recorded under the heading "current transfers" in the current account of the balance of payments; (b) compensation of employees which includes wages, salaries, and other benefits of border, seasonal, and other nonresident workers (such as local staff of embassies) and which are recorded under the "income" subcategory of the current account; and (c) migrants' transfers which are reported under "capital transfers" in the capital account of the IMF's Balance of Payments Yearbook

CLOSE

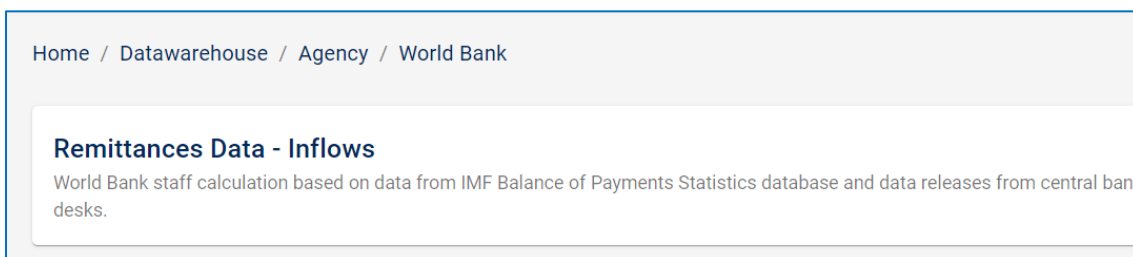
Please note that the adjacent asterisk, on the other hand, recalls the values of the DSD Attributes attached at the dataset level that may be present, such as SOURCE (Data source) and COMMENT_DSET (Dataset comment).

2.6.9 Dataflow source



The screenshot shows the 'Dataflow source' field in the Data Browser. It contains the text 'World Bank staff' and a small icon of a magnifying glass with a plus sign. To the right of the text is a dropdown menu showing 'EN' with a flag icon.

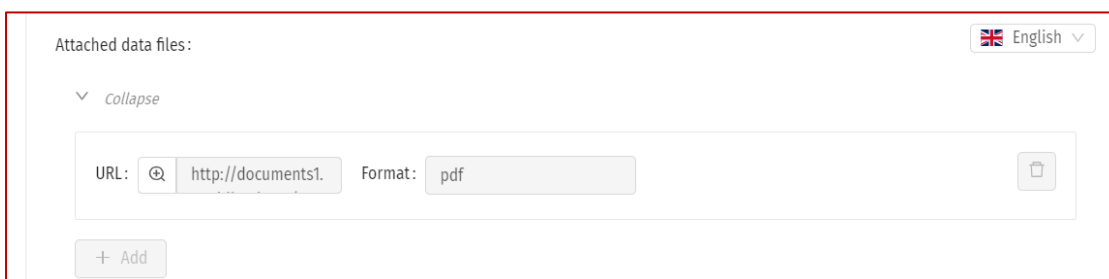
The dataflow source is made visible under the name of the dataflow



The screenshot shows the 'Remittances Data - Inflows' dataset in the Data Browser. The dataflow source is visible under the name of the dataflow, which is 'World Bank staff'.

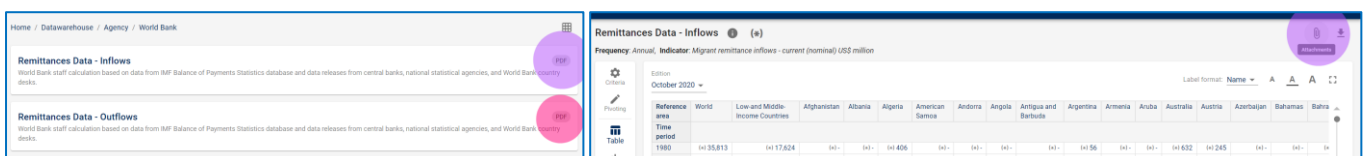
2.6.10 Attached data files

You can attach files of any format from the internet (upload from local computer is not available).



The screenshot shows the 'Attached data files' section in the Data Browser. It includes a 'collapse' button, a 'URL' field with a magnifying glass icon, a 'Format' dropdown menu, and an 'Add' button. The URL field contains 'http://documents1.' and the format is set to 'pdf'.

On the Data Browser, the file can then be recalled in two distinct points, outside and inside the dataflow.



The screenshot shows the 'Remittances Data - Inflows' dataset in the Data Browser. The file is recalled in two distinct points, outside and inside the dataflow. The dataset view shows a table with columns for 'Reference area', 'Time period', and various countries/regions. The 'World Bank staff' dataflow source is visible in the top right corner.

3. “Dataflow description” and “Dataflow source”

Outside the dataflow, metadata can be given both through the *Dataflow description* field (in the first step of the wizard) and through the *Dataflow source* field provided in the General parameters tab of the last step of the wizard.

Dataflow description

The screenshot shows the 'View/Edit Dataflow' window for dataflow ID 'DF_RETRIBUZ_03P'. The 'Dataflow' tab is selected, showing fields for ID, Agency, Version, Finalized, URI, URN, Valid from, Valid to, Name, and Description. A green arrow points to the 'Description' field, which contains the text 'Dataflow description'.

Dataflow source

(please note that the texting can be facilitated by using the pop-up window opened via the magnifying glass)

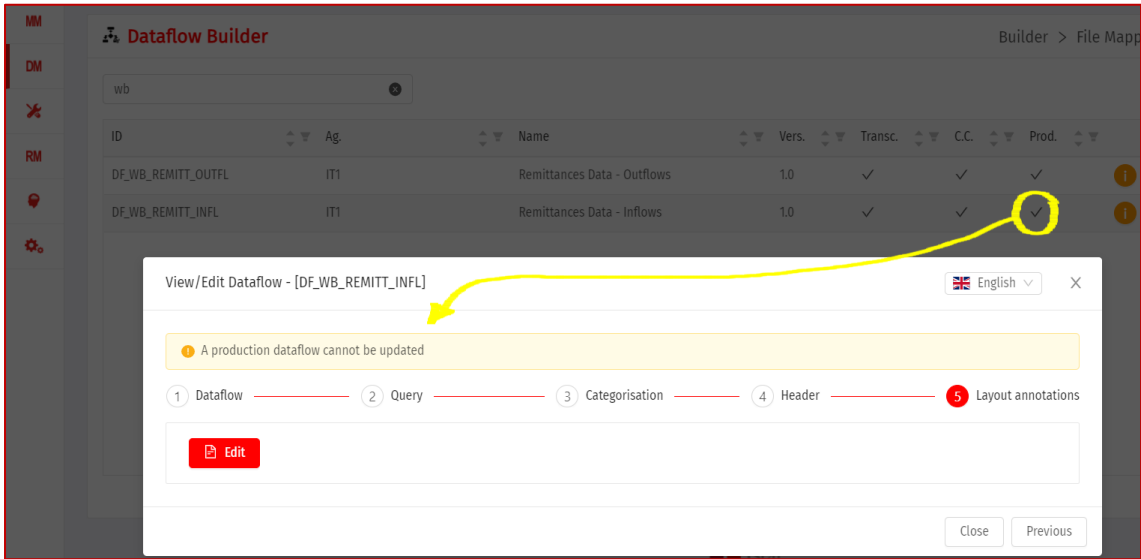
The screenshot shows the 'Dataflow source' field with a magnifying glass icon. A green arrow points to the magnifying glass icon, indicating that it can be used to open a pop-up window for text entry. The text 'National Institute for Social Security' is visible in the input field.

The result obtained on the Data Browser is the following:

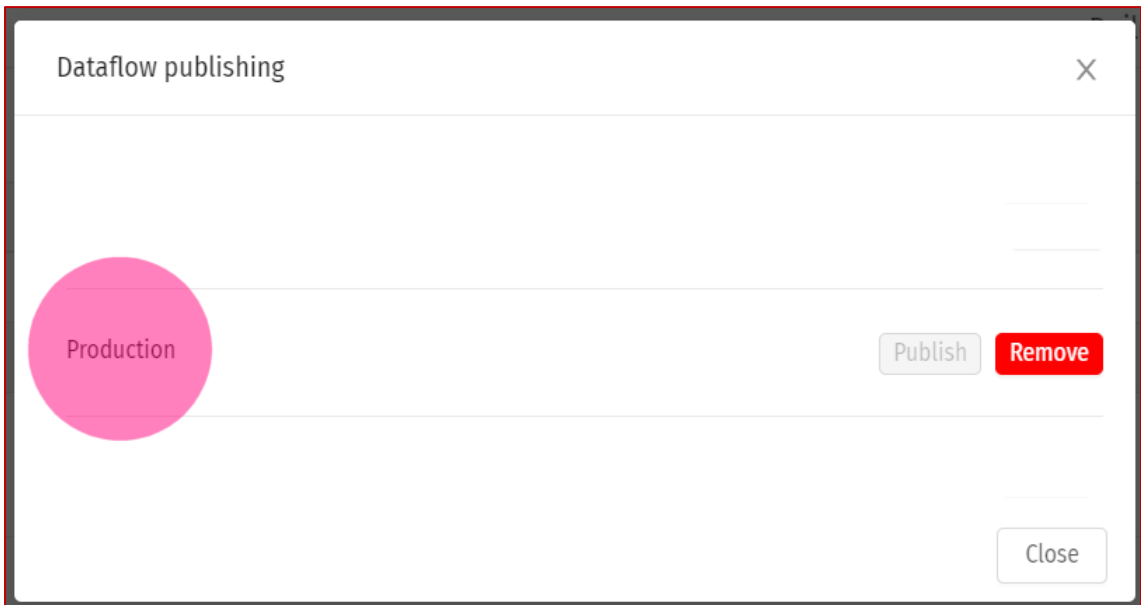
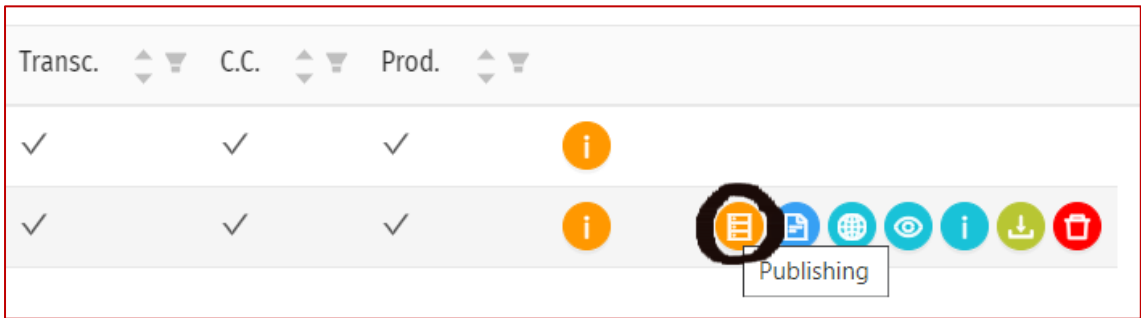
The screenshot shows the Data Browser interface for the dataflow 'INPS employed taxpayers wage - Professional status detailed'. The data is provided by the 'National Institute for Social Security'. The 'Dataflow description' section shows three tags: 'status', 'taxpayers', and 'wage'.

4. How to modify annotations

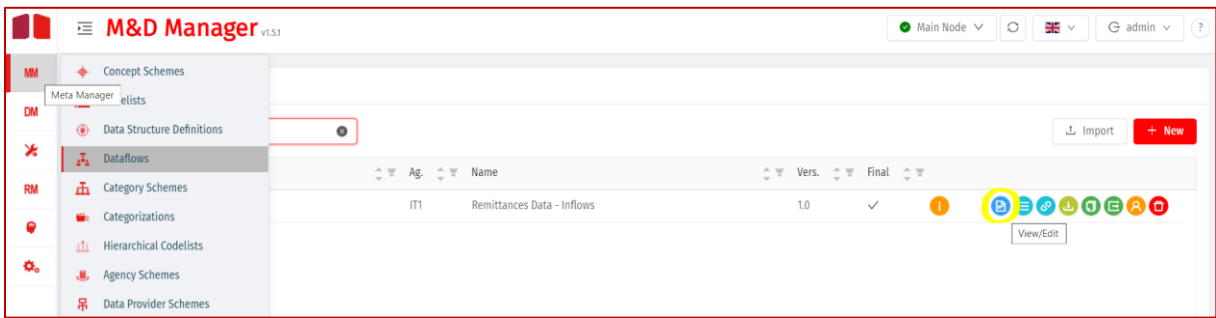
Once the dataflow has been disseminated, still stands two way to modify annotations.
The features of the dataflow builder can be used again, but the dataflow must be removed from production first, because a production dataflow cannot be updated.



In the Dataflow publishing menu it can be find a specific item to de-publish the dataflow.



Without removing the dataflow from production, it is also possible to modify annotations by browsing the dataflow in the METAMANAGER>DATAFLOW menu.



At the bottom the VIEW/EDIT menu of the dataflow, it would be possible to recall the Annotations Layout menu.

