Compano Online Software

Manual JSON Feeds

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Version 2.7

Document	Manual JSON Feeds
COS version	L02-L03
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1 Introduction

Data sharing with JSON Feeds
Compano Online Software JSON feeds are available for export of data to third parties and systems.

Some examples of useful applications of JSON feeds are:

Mono-lingual:

- Websites
- Webshops
- Catalogs

Multi-lingual:

- ERP systems
- CAD systems
- BIM systems

How does it work?
Feed lay-outs define which database fields and their values are exported. A feed lay-out is related to an entity, for example to *Products*. A Feed lay-out can contain a sub lay-out for several different related entities like *Items*. Thus Product data can be exported, including all related Item data.

Feeds can be configured to export data in one language or in multiple languages.

1.1 WARNING: Nightly downtime

Please, be mindful that Compano webservers are restarted each night. Restart times differ per application, but fall roughly between 1:00 and 6:00 AM. In case you need to know the specific downtime for your (client's) application, please contact Compano Support, support@compano.com.

2 Structure

A feed lay out is based upon a publication structure and can serve as an index for the related items and products. This will lead to a split feed:

- An index based upon the publication structure
- One or more end points for retrieving item and/or product data

In case there is no publication structure involved, the endpoints on item and/or product data can of course also be created and used. It is possible to filter and paginate certain data. It is basically possible to create endpoints for all available data in the PIM system, e.g. user defined fields.

3 Base URL

The base URL for each JSON feed:

```
https://{customer specific URL}/api/jsonfeed/{lay out name}
```

The URL in the example of this document is:

https://pimtest.compano.com/API/jsonfeed/Products_with_related_Items_for_webshop/1/1/?apikey=12398B7412642AB17647C823H64&filter=code=man001 and is composed of the following*:

The Base URL is
https://pimtest.compano.com/API/jsonfeed/Products_with_related_Items_for_webshop/

3.1 Feed parameters

3.1.1 Pagination parameters

Pagination parameters are added after the base URL, like thus: **[Base URL]/1/1**

3.1.2 Other parameters

The **first feed parameter** is added at the end of the base URL (with or without pagination), preceded by a question mark (?), for instance: **[Base URL]?apikey=2C198773924B0834H3**

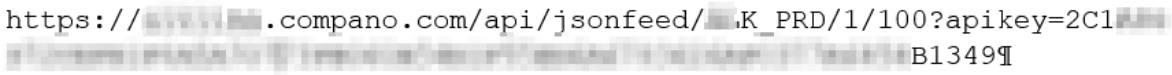
Subsequent parameters are added after the first feed parameter, preceded by an ampersand (&) and separated by comma's (,)

For example:
[Base URL]?apikey=2C198773924B0834H3&filter=Code=TAPCO,series=RKW,height=12,etc.

4 API key

The API key is provided by Compano and is linked to a dedicated user account for web services, usually named 'webuser', in the PIM system. The API key will handle external JSON requests, and is passed to the Compano PIM system via the header of the request:

For example:



Note: The API key can be requested from Compano Support or your Compano consultant.

4.1 Number of calls

The number of concurrent calls that can be made to the Compano API is dependent on your user licence:

Standard user: Only one, single call
Concurrent user: Up to 50 concurrent calls

5 Pagination

After the base URL, the possibility exists to paginate the data, for instance 1/100/. The first number specifies the ***starting record***, the second number is a ***counter***, specifying the number of records per page, from the specified starting record onwards.

For example, starting at the 1st record, with 100 records per page:

```
https://{customer specific URL}/api/jsonfeed/{lay out name}/1/100/
```

or, starting at the 101st record, with 50 records per page:

```
https://{customer specific URL}/api/jsonfeed/{lay out name}/101/50/
```

6 Count

At the end of each JSON output, a count of the number of records for that output is shown, for example:

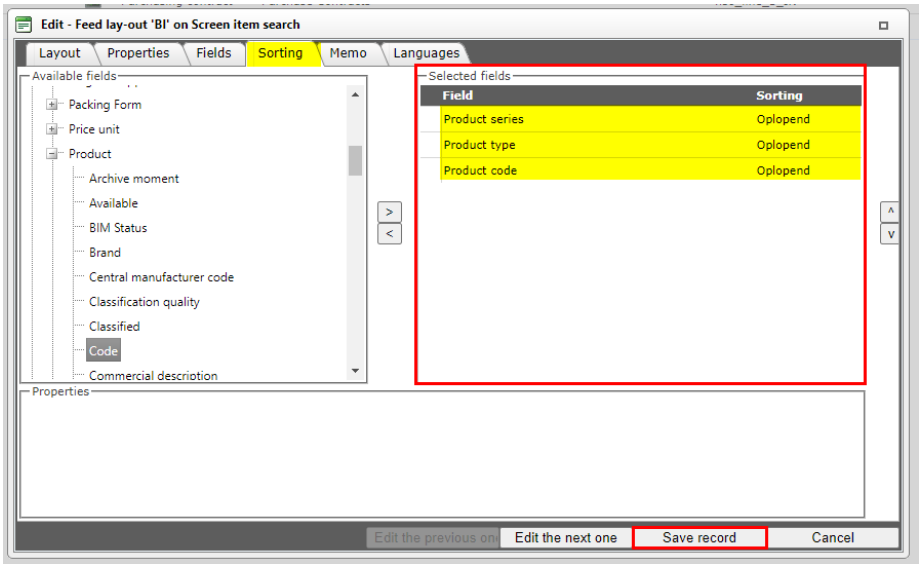
The ***count*** can make paginating easier: 'how many times do I need to paginate to show all records?' The base URL will give just a count of the number of records for the lay-out.

```
https://{customer specific URL}/api/jsonfeed/{lay out name}/
```

7 Sorting

By design, the JSON feed output is *unsorted*. Sorting can be done in the destination website or system.

As of COS version L03, sorting of the feed can now be set by adding fields on the sorting tab of the feed layout:



- Sorting can be set to either *Ascending* or *Descending*
- Sorting on multiple data fields is hierarchical; in the example above the products will be sorted first on Series, secondly within Series on Type and finally within Type on Product Code.

Note: Sorting is only valid for the ***main*** feed; any associated sub-feeds will not be sorted according to the settings of the main feed.

8 Filters

Several filters can be applied to a JSON feed.

8.1 On database field

The parameter to filter on a ***database field*** is: `?filter={db field}={value}`

For example:
`https://{customer specific URL}/api/jsonfeed/{lay out name}/1/100/?filter={db field1}={value}`

or multiple filters:
`https://{customer specific URL}/api/jsonfeed/{lay out name}/1/100/?filter={db field1}={value},{db field2}={value},{db field3}={value}`

8.2 Datesince=

By using ***Datesince*** it is possible to filter data on a certain date. The *Datesince* function will filter products or items that have been altered/created *on* or *after* the provided value of *Datesince*. The format of the *date* in the *Datesince* function is always: `YYYYMMDD`

For example[1]:
`?datesince=20170703`
or
`&datesince=20170703`

NOTE!: For *Items* and *Products* the field ***Modification Time*** *(Overall)* is used: `CompositeLastModificationDateTime`

For ***Items*** (`Item.CompositeLastModificationDateTime`) this includes changes in related fields, such as:

- Attachments (`Attachment`)
- Price Information (`PriceInfo`)
- Surcharges (`ItemSurcharge`)
- Purchasing Conditions (`ActivePurchaseCondition`)
- Accessory Products (`AddOn`)
- Product Modification Time (Overall) (`Product.CompositeLastModificationDateTime`)
- Group Code (`ItemGroup`)
- Supplier (`SalesOrganization`)

For ***Products*** (`Product.CompositeLastModificationDateTime`) this includes changes in the related fields:

- Attachments (`Attachment`)
- Manufacturer (`Manufacturer`)
- Accessory products (`AddOn`)
- Product parts (`SubProduct`)
- Group Code (`ProductGroup`)

For ***all other entities*** the field *Modification Time* is used: `LastModificationDateTime`

8.3 =IsNewForFeed=

The combination of the parameters *&Datesince=* and *IsNewForFeed* adds the possibility to discern whether a product has been created or whether it has been altered on or after the *DateSince*.

[1] The first filter parameter is added to the URL with the prefix `?`, any subsequent parameters are added using the prefix `&`. Within a filter different fieldname=value code is separated by a comma `,` For example:
`https://{customer specific URL}/api/jsonfeed/{layout name}/1/100?filter=ManufacturerCode=TAPCO,series=RKW,height=12&datesince=20181201`

In the JSON output the *IsNewForFeed* field can have two values:

- `True`: The product/item is new
- `False`: The product/item has been altered.

IsNewForFeed does not function when an item or product feed is nested under another feed like a feed based upon a publication structure.

To filter on *IsNewForFeed* adds the following to the URL:

```
?filter=Isnewforfeed={true/false}
```

or

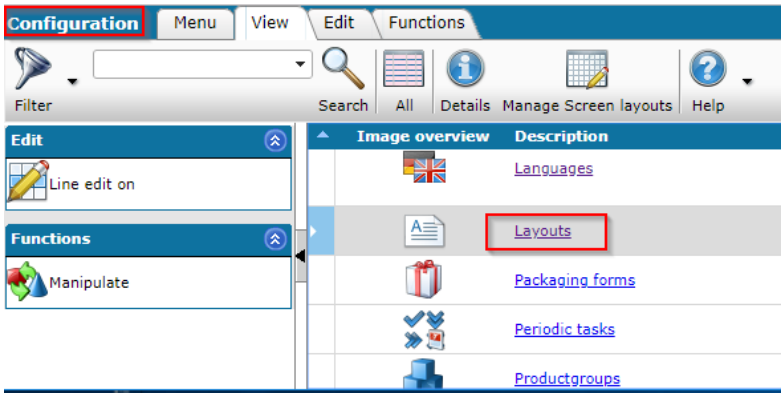
```
&filter=Isnewforfeed={true/false}
```

9 Create feed layouts

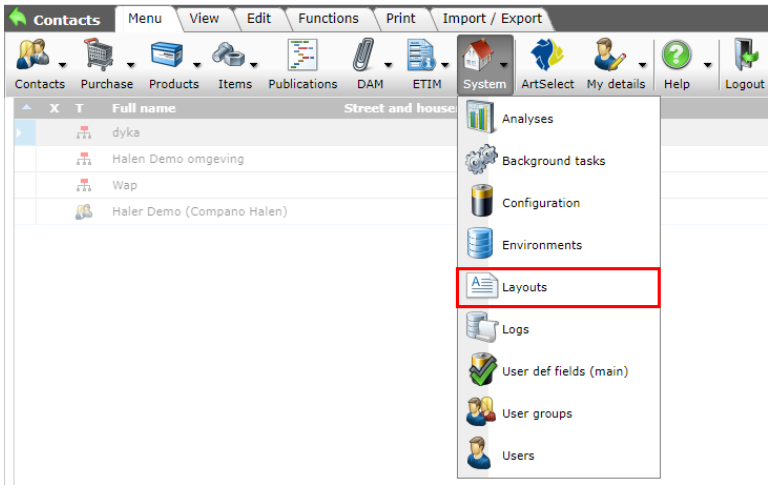
The first step in implementing a JSON Feed is to create a ***Feed Layout***. Feed layouts are used to select the database field values which are to be exported. A layout is related to a main entity, for example: *Products*. A Feed layout can contain a ***sub-layout*** for a related entity, for instance *Items*. This enables you to export Products with their Items.

In the explanation below, a main and sub-feed layout is created for exporting products with their related items for a web shop:

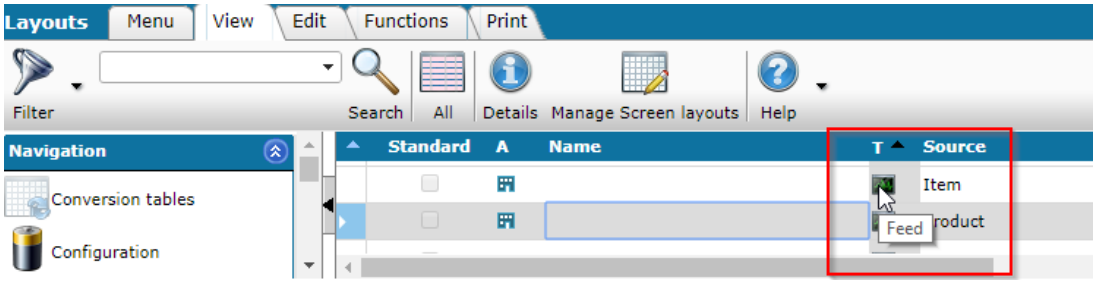
1. Through the Menu go to *System > Configuration > Layouts* and click on *Layouts*. Alternatively, as of COS version L03, go to *System > Layouts*.



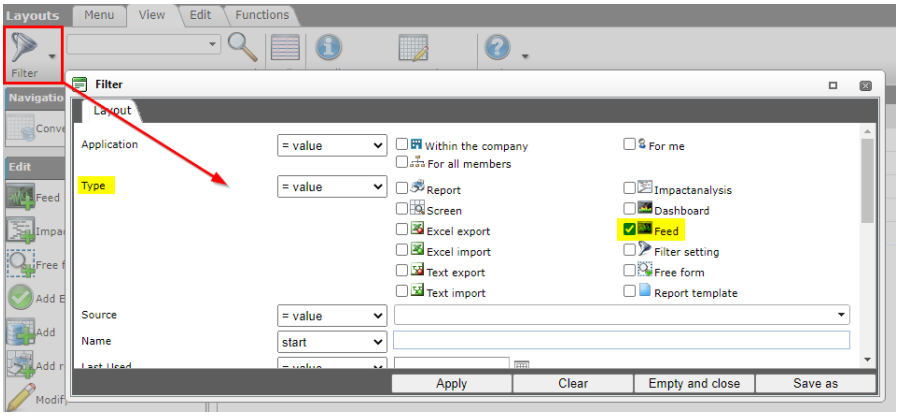
Or, as of COS version L03:



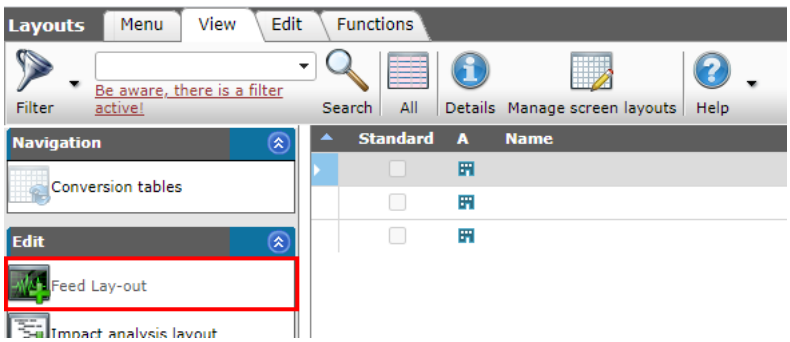
2. Layouts are listed by Type; a feed layout can be recognized by the icon  :



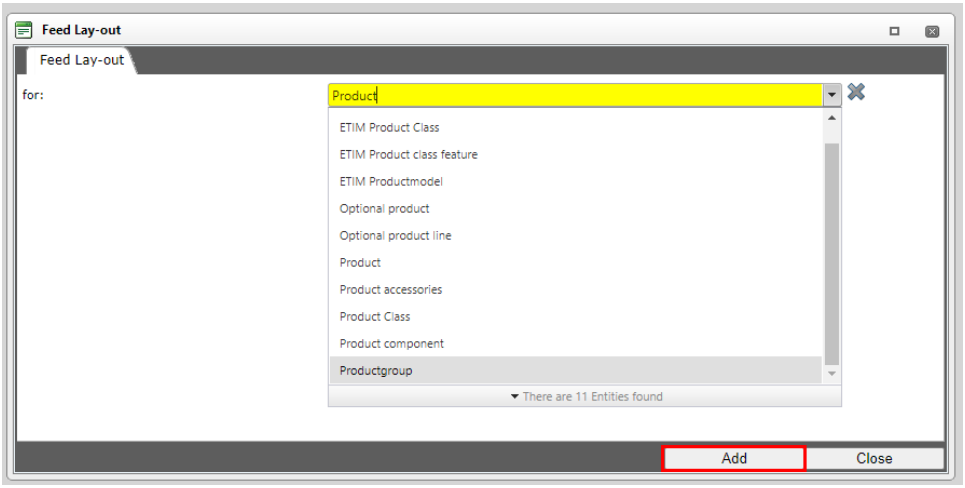
a. Note: Feed layouts can also be filtered out using the Comprehensive Filter:



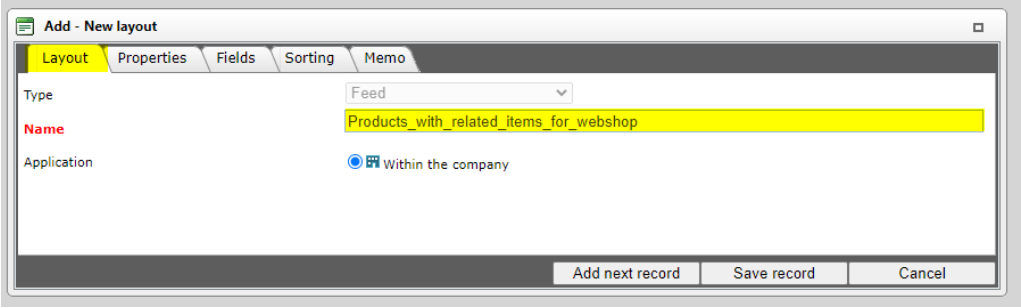
3. To create a new feed layout, under *Edit* click on *+Feed Layout:*



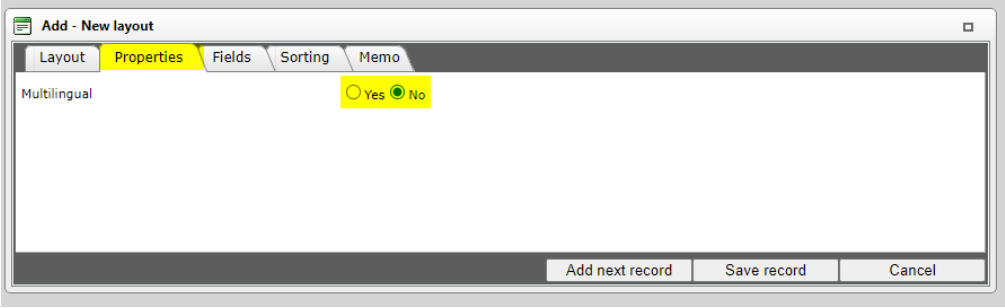
4. On the next screen, choose which entity to create the feed for and click on Add.



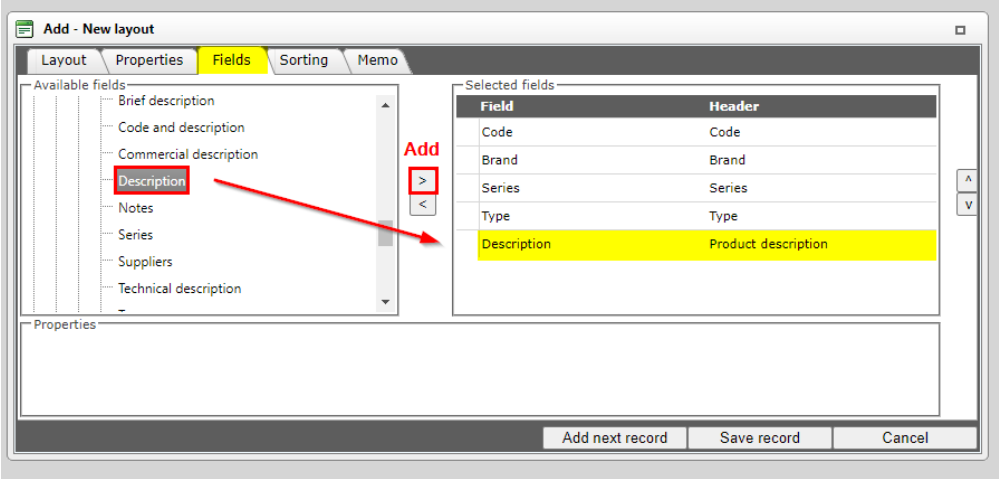
5. On the *Layout* tab, enter a unique name for the feed. Note: It is recommended to replace spaces with either a hyphen or underscore character, as web application sometimes do not handle spaces in names correctly:



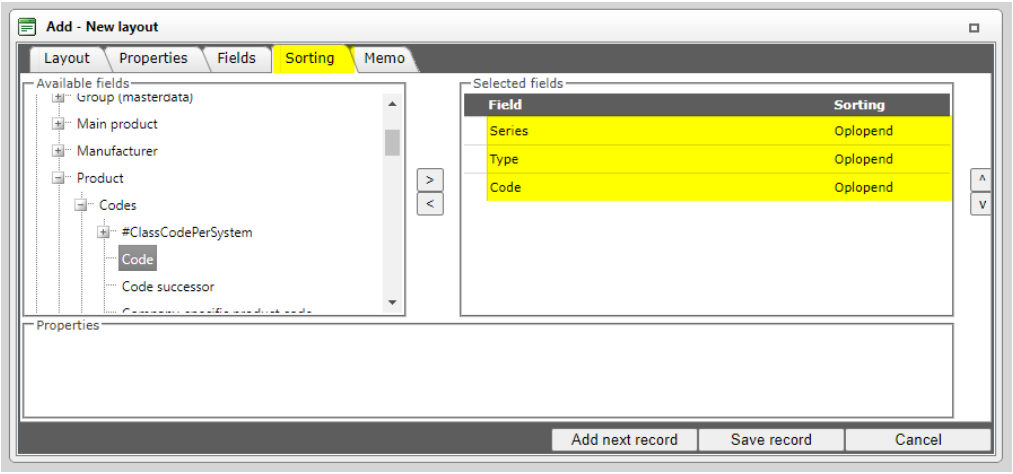
6. On the *Properties* tab, set Multilingual to *Yes* or *No*. This option will be explained in further detail in chapter *12 Language scenarios*.



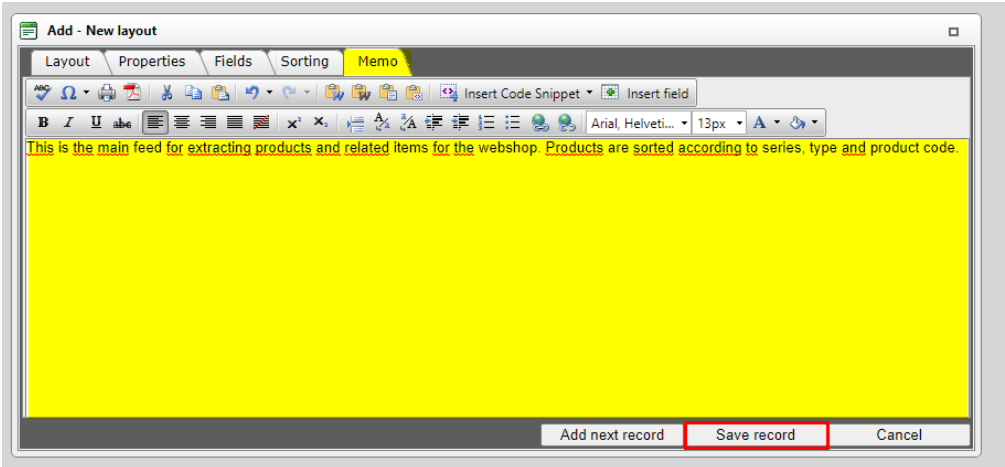
7. On the *Fields* tab, start construction your feed by selecting and adding database fields. The descriptions and values of these fields will be exported when the feed is called.
    a. Select a field under *Available fields* and use the arrows or 'double-click' to add it to *Selected fields*.



8. On the *Sorting* tab, optionally add any fields on which the feed needs to be sorted. For a detailed explanation, see chapter *7 Sorting*.



9. On the *Memo* tab, optionally enter any additional information regarding this feed. This tab can be used to take notes on why and how this feed was made. Note: This information will not be exported by the feed.

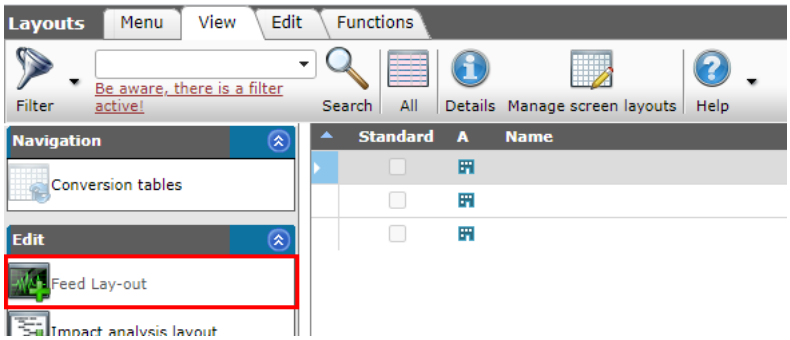


10. When ready, *Save* the feed.

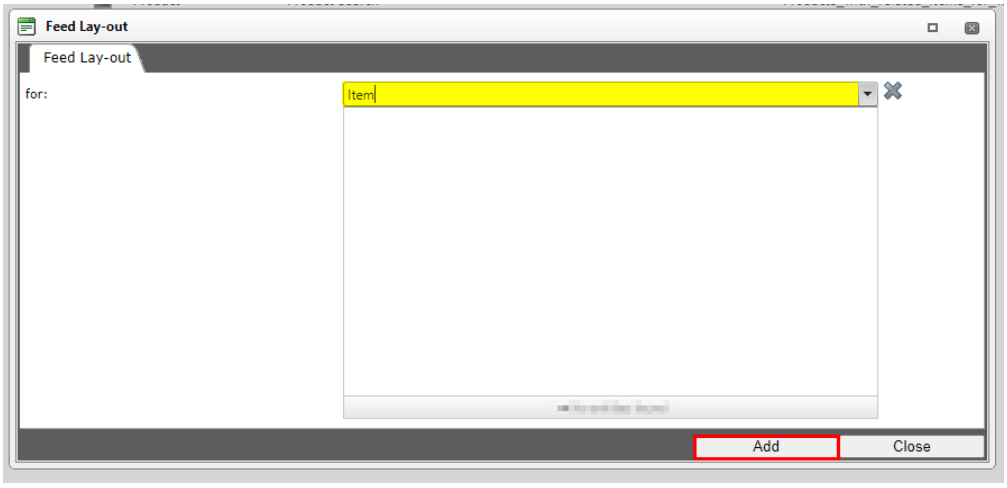
9.1 Adding a sub-feed

Now, to add related Item information to the Product feed of the previous paragraph, create a ***second*** (sub-)feed for the entity Item:

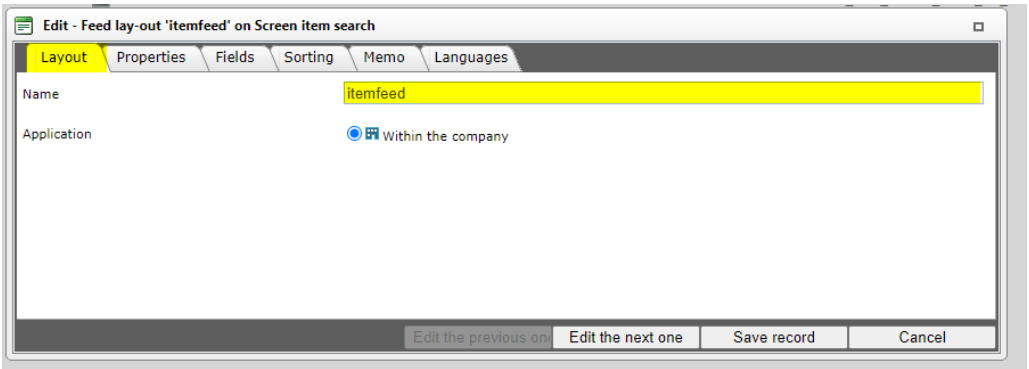
1. Again, under Edit, click on *+Feed Layout* to create a sub-feed layout:



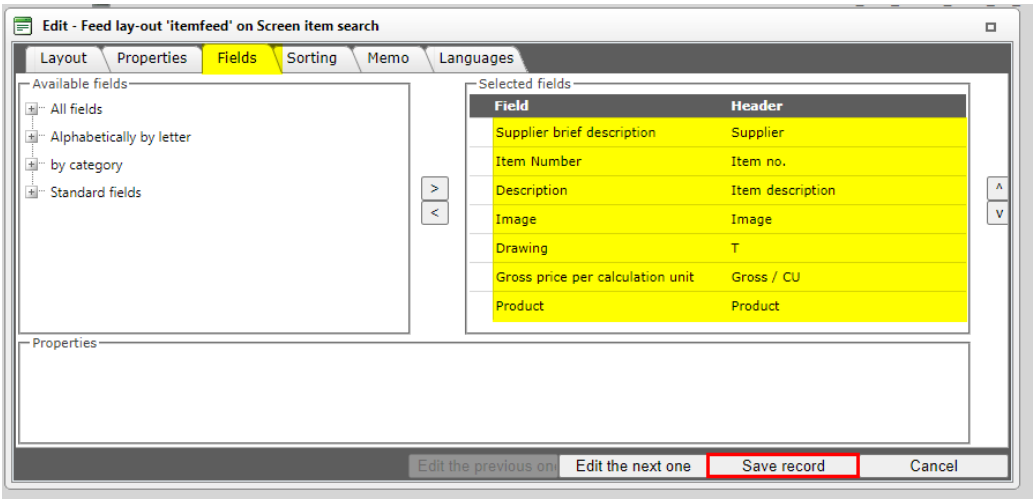
2. Next, choose the entity *Item*:



3. On the *Layout* tab, enter a unique name. Remember not to avoid using spaces.



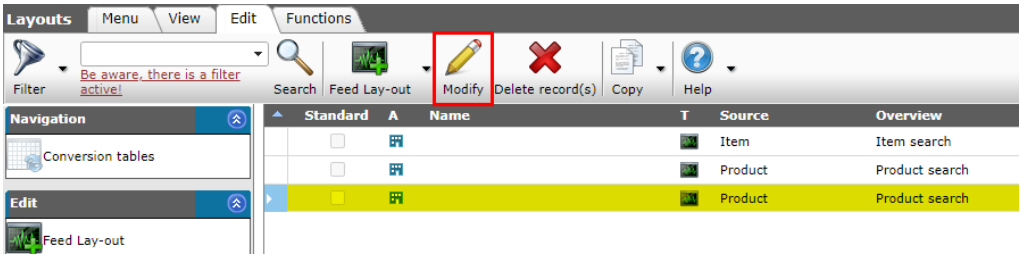
4. On the Fields tab, select and add Item fields that need to be included in the feed, for instance Item Number, Gross Price, etc.:



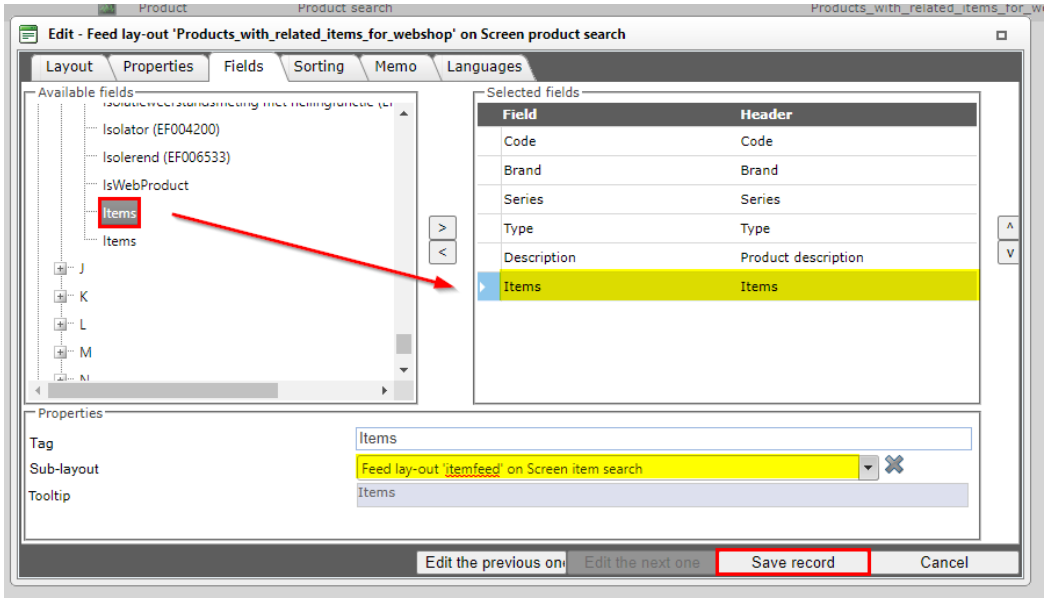
5. Save the feed by clicking on *Save record*.

Next, add the Item feed layout as a sub-layout to the Product feed:

1. Select the Product feed layout in the layout overview and, under *Edit*, click on *Modify*.



2. Go to the *Fields* tab and add the field *Items* to the Product feed layout:



3. Under *Selected fields*, select the *Items* field and enter the following Features:
   a. **Tag**: Optionally change the Tag text.
   b. **Sub-layout**: Select the Item feed you made previously from the drop-down menu.

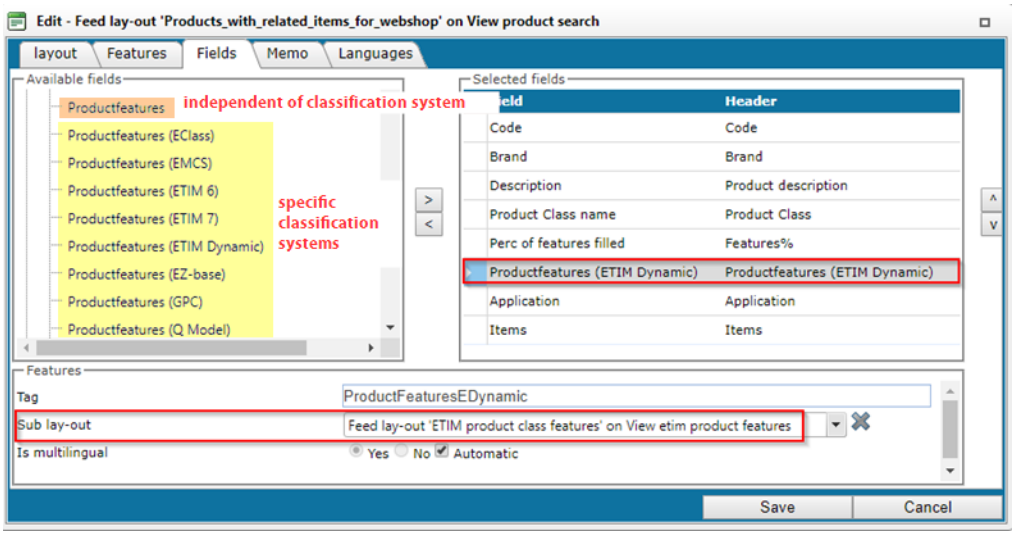
c. **Tooltip**: Optionally add a tooltip text.

4. Save the feed by clicking on *Save record*.

9.2 Adding Product Classification to your JSON feed layout

In the case that products have been classified in one specific or multiple classifications systems, then you would have to add the field Productfeatures to your product feed layout. Then create a separate (sub) layout for the entity *Product features* and link it to the field Productfeatures to include them in your feed.

Note: The contents of "productfeatures" and "productmodelfeatures" (in all its variants) have a FIXED layout, that you cannot influence. But, since the system will check on the existence of a sub layout you DO have to define at least one (dummy) layout for (ETIM) product features:



The *Productfeatures* tag can be added as a 'classification system neutral' tag or as a tag that is specific to one classification system, such as *Productfeatures (EZ-base)* or *Productfeatures (Q model)*, etc.

Notes:

1. Use specific tags only if creating a JSON feed. For XML feeds, only the independent tag can be used.
2. If multiple *Productfeature* tags (of different systems) have been added, please notify the company that will process the feed that per product multiple feature sets will be present in the feed.
3. Content of the *Productfeature* tag is hard-coded:
    a. For the XML variant the *Productfeature* tag consists of 13 sub tags:

```
<prdproductfeature classificationsystem="EDynamic">
  <classfeaturefeaturecode>EF005222</classfeaturefeaturecode>
  <classfeatureorderno>6</classfeatureorderno>
  <classfeaturefeaturename>Zuilhoogte</classfeaturefeaturename>
  <classfeaturefeaturetype>Range</classfeaturefeaturetype>
  <classfeaturevaluevaluecode />
  <classfeaturevaluevaluename />
  <classfeaturevalue>3000-3100</classfeaturevalue>
  <classfeaturevaluedescription>3000|3100 mm</classfeaturevaluedescription>
  <classfeatureunitcode>EU570448</classfeatureunitcode>
  <classfeatureunitabbreviation>mm</classfeatureunitabbreviation>
  <classfeatureunitdescription>Millimeter</classfeatureunitdescription>
  <classfeatureisarchived>false</classfeatureisarchived>
  <classfeatureisrecentlyadded>false</classfeatureisrecentlyadded>
</prdproductfeature>
```

b. For the JSON variant the content and number of tags varies per type of *Productfeature* chosen.
c. For the JSON variant you must choose a layout for the *Productfeature* sub tag, however content for this layout is hard-coded.

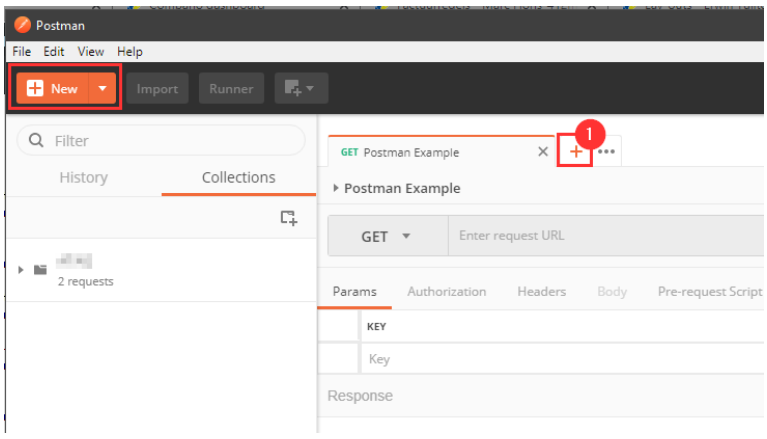
10 Test Feed Lay-out with Postman

The feed can be tested and edited with the free application ***Postman***:

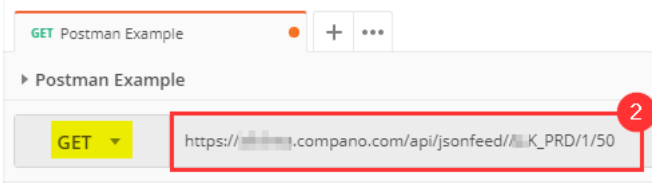
https://www.getpostman.com/apps

To test a feed:

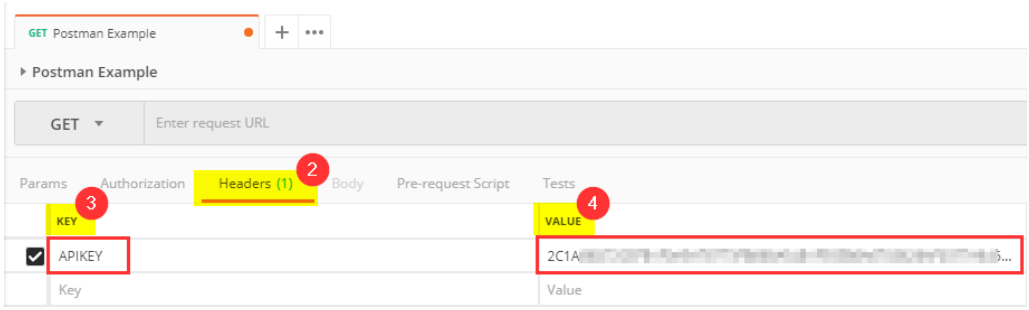
1. Click on the plus sign (1) to add a new *Get Request:*



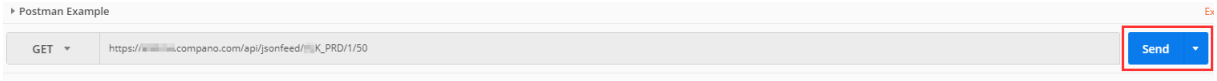
2. Next to GET (2) enter the Request URL, including any pagination parameters:



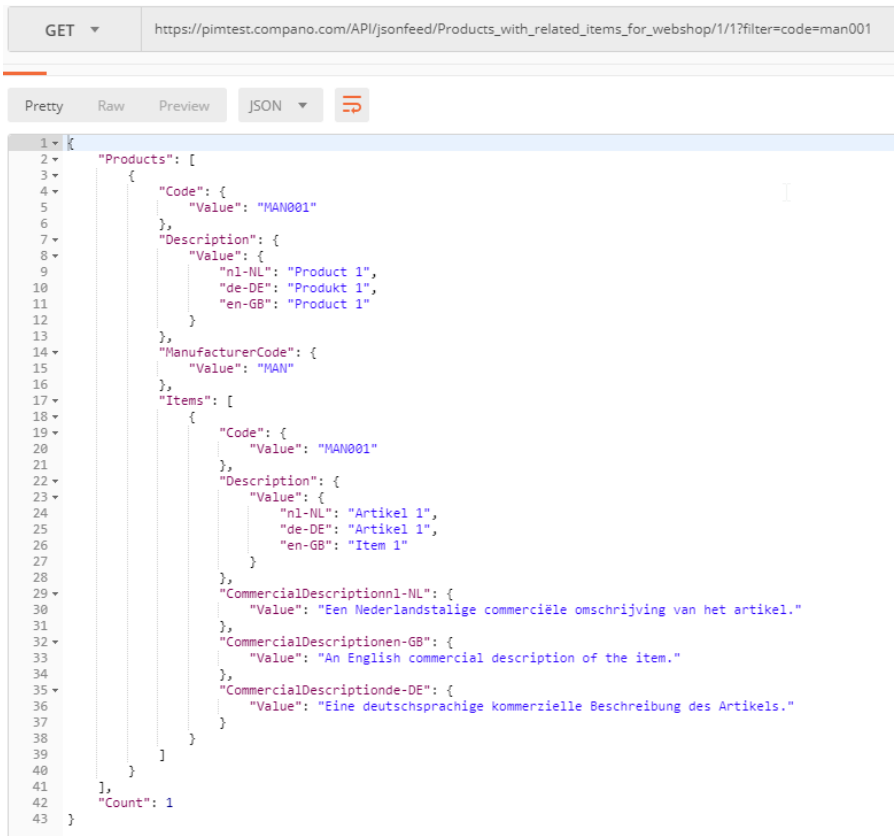
3. Go to the tab *Headers* (3) and under KEY (4) enter `APIKEY`:



4. Under VALUE (5), enter the ***API key*** of the 'webservices' user (see chapter *4 API key*)



5. Click *Send* to get (the results of) the JSON Feed URL. Below is a very simple example of a multilingual feed for just one product with code MAN001 with its related articles.

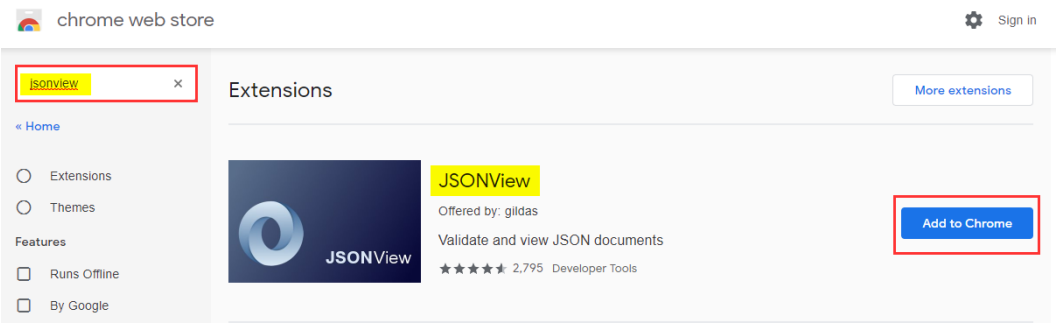



```
{
    "Products": [
        {
            "Code": {
                "Value": "MAN001"
            },
            "Description": {
                "Value": {
                    "nl-NL": "Product 1",
                    "de-DE": "Produkt 1",
                    "en-GB": "Product 1"
                }
            },
            "ManufacturerCode": {
                "Value": "MAN"
            },
            "Items": [
                {
                    "Code": {
                        "Value": "MAN001"
                    },
                    "Description": {
                        "Value": {
                            "nl-NL": "Artikel 1",
                            "de-DE": "Artikel 1",
                            "en-GB": "Item 1"
                        }
                    },
                    "CommercialDescriptionnl-NL": {
                        "Value": "Een Nederlandstalige commerciële omschrijving van het artikel."
                    },
                    "CommercialDescriptionen-GB": {
                        "Value": "An English commercial description of the item."
                    },
                    "CommercialDescriptionde-DE": {
                        "Value": "Eine deutschsprachige kommerzielle Beschreibung des Artikels."
                    }
                }
            ]
        }
    ],
    "Count": 1
}
```

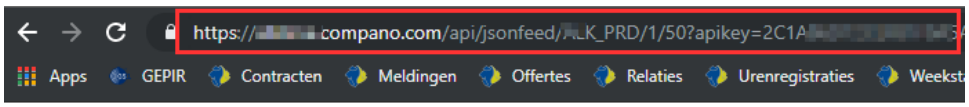
11 View JSON feed in Google Chrome

To view a JSON feed in the Google Chrome browser, use a browser extension like *JSONView*.

1. Download the ***JSONView*** extension from: https://chrome.google.com/webstore/



2. Add the extension to Chrome
3. Type the JSON feed URL, including *apikey* Chrome's address bar. Results will now be shown in a structured lay-out. Using the plus- and minus-signs, you can extend or collaps parts of the feed:




```
{
  - Products: [
      - {
        - ManufacturerDescription: {
            Value: "[redacted]"
          },
        - Code: {
            Value: "ADSL ROUTER"
          },
        - Description: {
            Value: "Router ADSL wired pre-configuration"
          },
        - Brand: {
            Value: "[redacted]"
          },
        - Series: {
            Value: ""
          },
        - Type: {
            Value: ""
          },
        - GTIN: {
            Value: ""
          },
        - ClassCode: {
            Value: ""
          },
        - ClassName: {
            Value: ""
          },
          ProductFeatures: { },
          Attachments: [ ],
          AddOnProducts: [ ],
          STN_Anti_allergie_enzymenfilter: null,
          STN_Auto_Fan_Speed_mode: null,
        - UDF_GUID: {
            Value: "9D4A57B8-7AEE-40E0-86F1-48E21AACBC5A"
          },
        - CommercialDescription: {
            Value: ""
```

12 Language scenarios

Languages in Compano Software are ordered hierarchically:

- (Feed) lay-out language
    - User language
        - System language

There are 4 basic configurations for the hierarchy for languages in the JSON feed:

1. Define only one language by adding the filter *&culture=* to the URL
2. Define multiple languages by adding them to the feed lay-out
3. User language of the user that runs the feed
4. Database language for the description of multilingual text fields that are marked as 'No' for multilingual

See below a table for scenarios:

	Customer multilingual	**Customer monolingual**
JSON Feed multilingual	*-For system databases-* Use **Lay-out languages**. But use **Database language** for exceptions at field level (of type multilingual description), like brand.	n/a
JSON Feed monolingual	*-For websites-* Use filter **&culture=[ISO 639-1 language code combined with ISO-3166-1 alpha-2 standaard]**[2]	*-For system databases-* Use **User language.** Option 'Add Value Description' for field types: - Enum (single select) - Multiple Select - Boolean (True/False) - For multilingual text fields where Multilingual is set as 'Yes'

12.1 Configuring monolingual Feeds

12.1.1 &culture=

A multilingual customer can generate a *Monolingual* feed for a website by using the filter **&culture=** followed by the language ISO code.

Any languages selected on the tab Languages and multilingual settings (yes or no) at lay-out field level are ignored.

In the following example URL the only language is English, so the filter will be followed by the ISO code *en-GB*. So the URL is:

[2] Examples of this ISO combination are *en-gb* and *en-us*

https://pimtest.compano.com/API/jsonfeed/Products_with_related_items_for_webshop/1/1?filter=code=man001**&culture=en-gb**

An example of the JSON output:

- The database language is *Dutch*
- The feed lay-out is multilingual
- The languages selected on the feed lay-out are *Dutch*, *German* and *English*
- Filter is **&culture=**en-GB

Field Type	Lay-out Field	JSON output

Text	Code	"Code": {
		"Value": "MAN001"
		}

Multilingual Text	Brand	"Brand": {
		"Value": "Manufacturer"
		}

Multilingual Text	Product description	"Description": {
		"Value": "Product 1"
		}

Multilingual Text	Product Class Name	"ClassName": {
		"Value": "Cable length meter"
		}

Percentage	Perc of features filled	"PercOfFeaturesFilled": {
		"Value": 50
		}

Multiple select	User defined field 'Application'	"Application": [
		{
		"Value": "Municipal water supply",
		"ValueDescription": "Municipal water supply"
		},
		{
		"Value": "Process technology",
		"ValueDescription": "Process technology"
		}

Range	Cable diameter	"EC000500_EF002356": {
		"FeatureCode": "EF002356",
		"Description": "Cable diameter",
		"Label": "Cable diameter",
		"Domain": "Range",
		"Value": {
		"Min": 10,
		"Max": 50
		},
		"Unit": "mm",
		"Postfix": "Millimetre"
		}

Enum (single choice)	Indication	"ProductFeaturesEDynamic": {
		"EC000500_EF000350": {
		"FeatureCode": "EF000350",
		"Description": "Indication",
		"Label": "Indication",
		"Domain": "Enum",
		"Value": "EV005572",
		"ValueDescription": "Digital"

Text	Item Number	"Code": {
		"Value": "MAN001"
		}

Multilingual Text	Description	"Description": {
		"Value": "Item 1"
		}

Multilingual Text	Commercial Description	"CommercialDescription": {
		"Value": "An English commercial description of the item."
		}

Decimal	Price	"GrossPriceInfoPrice": { "Value": 199

		}

Boolean	Has discount	"HasCondition": {
		"Value": false,
		"ValueDescription": "No"
		}

Image	Image	"Image": {
		"Value":
		"/Data/Environments/000001/Attachment/Bijlage/cable_length_meter.jpg"
		}

12.1.2 User Language

A monolingual customer can generate a monolingual feed for a system in the language of the user that runs the feed (the webservices user). This language is used for the value description of:

- Enum fields (single choice)
- Multiselect (multiple choice)
- Boolean fields (true/false)
- Multilingual text fields that are marked as multilingual

An example of the JSON output

- The database language is *Dutch*
- There are no languages selected on the feed lay-out
- The feed lay-out is monolingual (on the tab Features Multilingual is set to 'No')
- The webservices user language is *nl-NL*

Field Type	Lay-out Field	JSON output

Text	Code	"Code": {
		"Value": "MAN001"
		}

Multilingual Text	Brand	"Brand": {
		"Value": "Manufacturer"
		}

Multilingual Text	Product description	"Description": {
		"Value": "Product 1"
		}

Multilingual Text	Product Class Name	"ClassName": {
		"Value": "Kabellengtemeter"
		}

Percentage	Perc of features filled	"PercOfFeaturesFilled": {
		"Value": 50
		}

Multiple select	User defined field 'Application'	"Application": [
		{
		"Value": "Municipal water supply",
		"ValueDescription": "Gemeentelijke watervoorziening"
		},
		{
		"Value": "Process technology",
		"ValueDescription": "Procestechnologie"
		}

Range	Cable diameter	"EC000500_EF002356": {
		"FeatureCode": "EF002356",
		"Description": "Kabeldiameter",
		"Label": "Kabeldiameter",
		"Domain": "Range",
		"Value": {
		"Min": 10,
		"Max": 50
		},
		"Unit": "mm",
		"Postfix": "Millimeter"
		}

Enum (single choice)	Indication	"ProductFeaturesEDynamic": {
		"EC000500_EF000350": {
		"FeatureCode": "EF000350",
		"Description": "Indicatie/aanduiding",
		"Label": "Indicatie/aanduiding",
		"Domain": "Enum",
		"Value": "EV005572",
		"ValueDescription": "Digitaal"

Text	Item Number	"Code": {
		"Value": "MAN001"
		}

Multilingual Text	Description	"Description": {
		"Value": "Artikel 1"
		}

Multilingual Text	Commercial Description	"CommercialDescription": {
		"Value": "Een Nederlandstalige commerciële omschrijving van het artikel."
		}

Decimal	Price	"GrossPriceInfoPrice": {
		"Value": 199
		}

Boolean	Has discount	"HasCondition": {
		"Value": false,
		"ValueDescription": "Nee"
		}

Image	Image	"Image": {
		"Value": "/Data/Environments/000001/Attachment/Bijlage/cable_length_meter.jpg"
		}

12.1.3 Lay-out Languages

If the customer has multilingual data, then the feed could contain multiple languages.

An example of the JSON output:

- The database language is *Dutch*.
- The languages selected on the feed lay-out are *Dutch, German* and *English*
- The feed lay-out is multilingual

Entity	Field Type	Lay-out Field	JSON output

Product	Text	Code	"Code": {
			"Value": "MAN001"
			}

Product	Multilingual Text	Brand (multilingual set to 'No')	"Brand": {
			"Value": "Manufacturer"
			}

Product	Multilingual Text	Product description	"Description": {
			"Value": {
			"nl-NL": "Product 1",
			"de-DE": "Produkt 1",
			"en-GB": "Product 1"
			}

Product	Multilingual Text	Product Class Name	"ClassName": {
			"Value": {
			"nl-NL": "Kabellengtemeter",
			"de-DE": "Kabellängenmessgerät",
			"en-GB": "Cable length meter"
			}

Product	Percentage	Perc of features filled	"PercOfFeaturesFilled": {
			"Value": 50
			}

Product	Multiple select	User defined field 'Application'	"Application": [
			{
			"Value": "Municipal water supply",
			"ValueDescription": {

			"nl-NL": "Gemeentelijke watervoorziening",
			"de-DE": "Munizipale Wasseranlieferung",
			"en-GB": "Municipal water supply"
			}
			},
			{
			"Value": "Process technology",
			"ValueDescription": {
			"nl-NL": "Procestechnologie",
			"de-DE": "Prozesstechnologie",
			"en-GB": "Process technology"
			}

Product feature	Range	Cable diameter	"EC000500_EF002356": {
			"FeatureCode": "EF002356",
			"Description": {
			"nl-NL": "Kabeldiameter",
			"de-DE": "Kabeldurchmesser",
			"en-GB": "Cable diameter"
			},
			"Label": {
			"nl-NL": "Kabeldiameter",
			"de-DE": "Kabeldurchmesser",
			"en-GB": "Cable diameter"
			},
			"Domain": "Range",
			"Value": {
			"Min": 10,
			"Max": 50
			},
			"Unit": "mm",
			"Postfix": {
			"nl-NL": "Millimeter",
			"de-DE": "Millimeter",
			"en-GB": "Millimetre"
			}

Product feature	Enum (single choice)	Indication	"ProductFeaturesEDynamic": {
			"EC000500_EF000350": {
			"FeatureCode": "EF000350",
			"Description": {
			"nl-NL": "Indicatie/aanduiding",
			"de-DE": "Anzeige",
			"en-GB": "Indication"
			},
			"Label": {
			"nl-NL": "Indicatie/aanduiding",
			"de-DE": "Anzeige",
			"en-GB": "Indication"
			},
			"Domain": "Enum",
			"Value": "EV005572",
			"ValueDescription": {
			"nl-NL": "Digitaal",
			"de-DE": "digital",
			"en-GB": "Digital"
			}

Item	Text	Item Number	"Code": {
			"Value": "MAN001"
			}

Item	Multilingual Text	Description	"Description": {
			"Value": {
			"nl-NL": "Artikel 1",
			"de-DE": "Artikel 1",
			"en-GB": "Item 1"
			}

Item	Multilingual Text	Commercial Description	"CommercialDescription": {
			"Value": {
			"nl-NL": "Een Nederlandstalige commerciële omschrijving van het artikel.",

			"de-DE": "Eine deutschsprachige kommerzielle Beschreibung des Artikels.", "en-GB": "An English commercial description of the item." }
Item	Decimal	Price	"GrossPriceInfoPrice": { "Value": 199 }
Item	Boolean	Has discount	"HasCondition": { "Value": false, "ValueDescription": { "nl-NL": "Nee", "de-DE": "Nein", "en-GB": "No" }
Item	Image	Image	"Image": { "Value": "/Data/Environments/000001/Attachment/Bijlage/cable_length_meter.jpg" }

12.1.4 Database Language

The database language can be set for the description of multilingual text fields that are configured as not multilingual at feed lay-out field level. An example is (product) Brand, it does not need to be translated.

13 Automatic image resizing

It is usually not necessary to add images of varying size. Images will be automatically resized when requested, using the parameters `W` and `H` in the URL:

```
http://name.compano.nl/Data/Environments/00XXXX/Images/ProductGroup/Drawings/D1112.t.jpg?W=300&H=300
```

The example above will generate a resized (300x300) version of the JPG-file `D1112.t.jpg` and store it in a cache folder 300x300 on the Compano server.

Note: cache folders will be emptied when the original image is replaced. The new image will be resized on the next retrieval request.

The following image types can be resized this way:

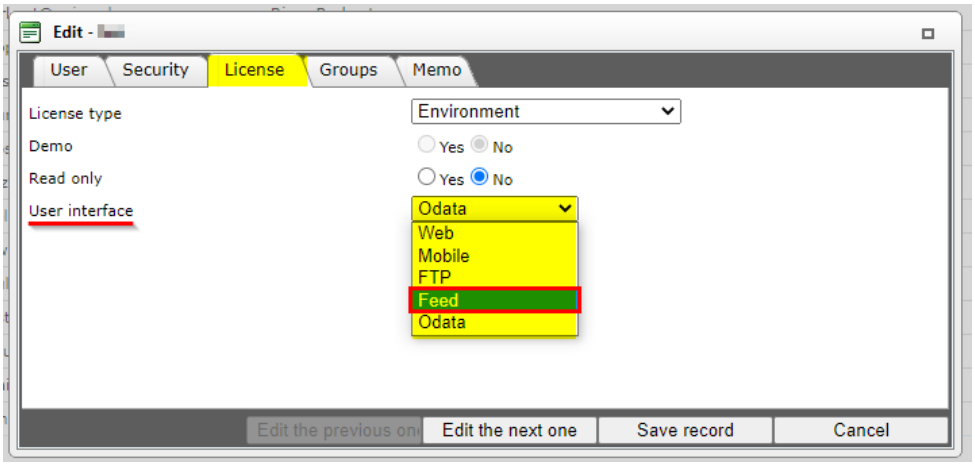
- PNG
- JPG
- JPEG
- GIF
- WMF

14 Appendix A: Changes to JSON feeds in L03

Compared to version L02, a number of changes have been made to the way JSON feeds work. A number of data fields that can be used in JSON feeds have also been renamed.

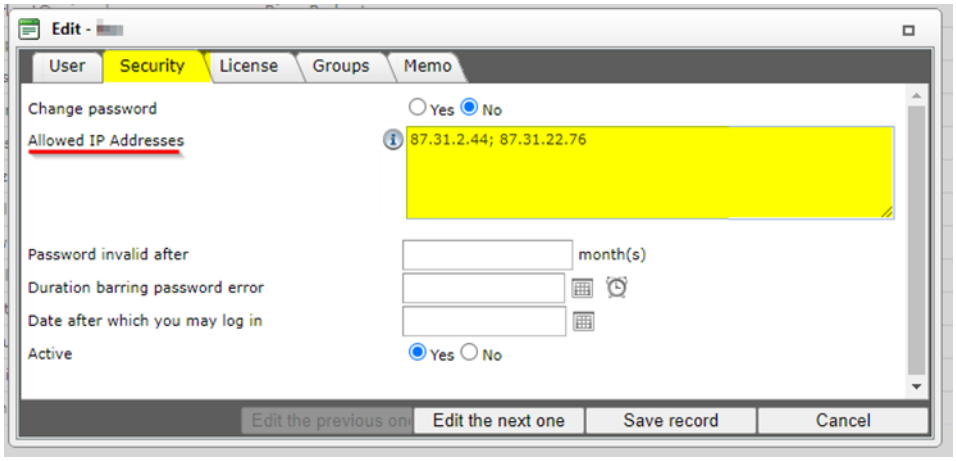
14.1 Feed-users

Existing 'users' which are used to access JSON- or XML-feeds need to be set to type *Feed*. User credentials for this type can no longer be used to login to the User Interface. Furthermore, the API-key associated with the 'feed user' account will only be visible to the Admin user of the system.

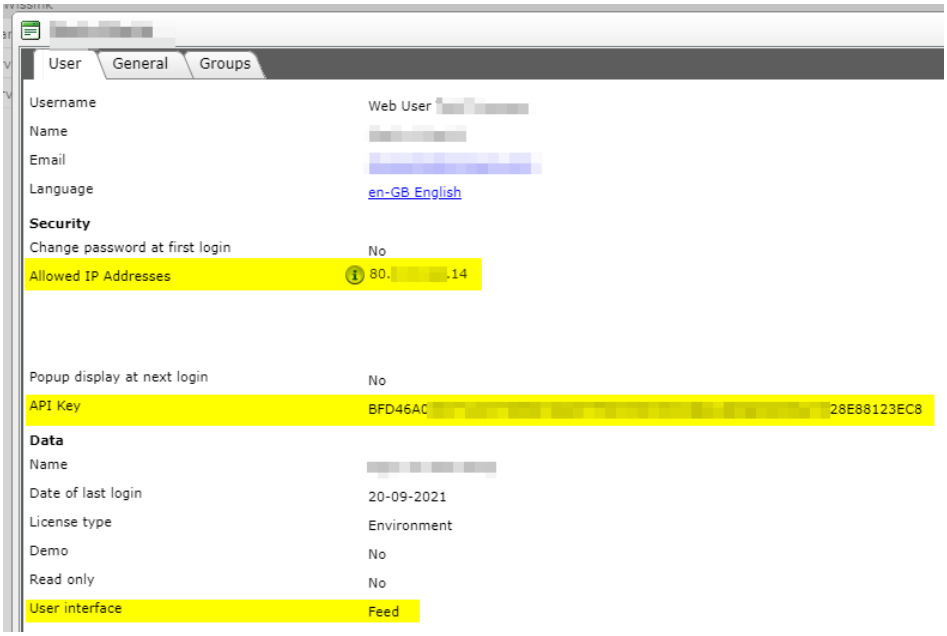


Note: Data access through the API-key can, optionally, be restricted based on IP-addresses:

- Multiple IP addresses are separated by a semicolon
- IP address ranges are allowed, for example: 86.77.22.0/24



Important: The API-key for the feed-user will only show after both steps mentioned above have been completed:



14.2 JSON feed sorting

Sorting of JSON feeds can now be set by adding fields on the sorting tab of the feed layout.

- Sorting can be set to either Ascending or Descending
- Sorting on multiple data fields is hierarchical

Note: Sorting is only valid for the main feed; any associated sub-feeds will not be sorted according to the settings of the main feed.

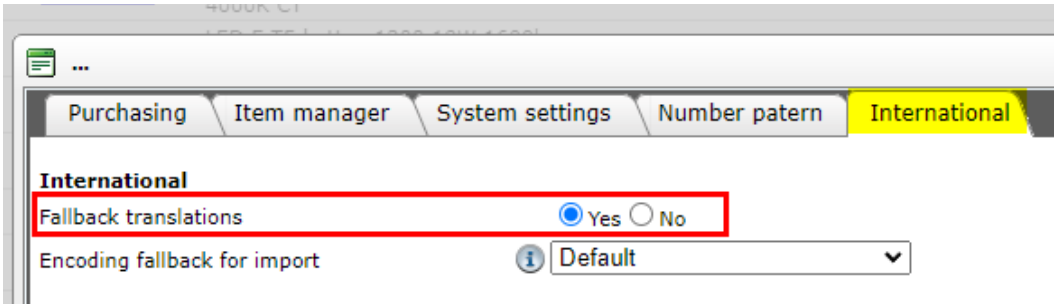
14.3 ModificationCode (MC/Mutation Code)

The ModificationCode (MC/Mutation Code) is no longer available in JSON feeds:

- Replacement field on **Product**: *Availability* (Deleted, Valid, Running in, Running out)
- Substitute field on **Attachment**: *IsArchived* (True / False)

14.4 Fallback of translation in feeds

In COS L03 the fallback of translation in feed is now dependent on the central fallback setting at *My Details > Compano Settings >* tab *International*.



When set to *Yes*, translatable fields in the feed will follow the standard fallback scheme; when set to *No*, translatable fields in the field will not fallback and thus remain empty.

Important: Please pay attention to this setting if your feeds (XML or JSON) contain multiple language fields.

14.5 Renamed data fields

L02 field name	L03 field name
On screen Item Search	
Mutation code	ModificationCode
Available	Status code
#IsNewDataPool	Datapool
Group Code	Item Group code
Group (masterdata) description	Group (masterdata) description (item group)
Product manufacturer code	Product manufacturer code (gln)
Modification Time	Last modification
#IsWebItem	On internet
Minimum purchase in Order Units	Minimum purchase in OU
On screen Accessory Item	
#AddOnCode	Accessories item code
On screen Attachments	
File	Location
On screen Product Search	
Manufacturer code	Manufacturer code (gln)
Mutation code	ModificationCode
Description	Description (product)
Commercial description	Commercial description (product)
Brand	Brand (product)
Series	Series (product)
Type	Type (product)

14.6 Cancelled data fields

- Has accessory
- Choice item description

14.7 Structural and tag changes

```
VERSION L03

<prditem>
  <prditem>
    <salesorganizationcode>SAN</salesorganizationcode>
    <salesorganizationshortdescription>[illegible]</salesorganizationshortdescriptio
n>
    <modificationcode>Confirm</modificationcode>
    <status>None</status>
    <isnewdatapool>false</isnewdatapool>
    <itempublish>WebItem, Publication</itempublish>
    <productstock_status>N</productstock_status>
    <code>S2839460</code>
    <companycode>839460</companycode>
    <groupcode>ABB02-AC</groupcode>
    <assignedgroupdescription text_pt="Salamandras a ar Rita">Salamandras a ar R
ita</assignedgroupdescription>
    <image>https://[illegible]/360/839460.jpg</image>
    <drawing />
    <utilizationorderratio>1</utilizationorderratio>
    <description text_pt="Salamandra pellets ar Eva Calor Rita preta">Salamandra
pellets ar Eva Calor Rita preta</description>
    <commercialdescription text_pt="A RITA é uma salamandra a pellets ventilada,
com uma potência de 8 kW. Com acabamento em aço pintado e  painéis laterais em
aço, de cores sóbrias e sofisticadas, distingue-se pela sua beleza e elegância.
Com defletor em aço e ventilador tangencial, a RITA pode ligar-se a uma  chaminé
superior ou posterior. O seu controlo é feito através de um display simples e in
tuitivo.">A RITA é uma salamandra a pellets ventilada, com uma potência de 8 kW.
Com acabamento em aço pintado e  painéis laterais em  aço, de cores sóbrias e so
fisticadas, distingue-se pela sua beleza e elegância. Com defletor em aço e vent
ilador tangencial, a RITA pode ligar-se a uma  chaminé superior ou posterior. O
seu controlo é feito através de um display simples e intuitivo.</commercialdescr
iption>
    <linegrossprice>1230</linegrossprice>
```

```
VERSION L02

<prditem>
  <prditem>
    <salesorganizationcode>SAN</salesorganizationcode>
    <salesorganizationshortdescription>[illegible]</salesorganizationshortdescriptio
n>
    <modificationcode>Confirm</modificationcode>
    <status>None</status>
    <isnewdatapool>false</isnewdatapool>
    <itempublish>IsWebItem, InPublication</itempublish>
    <productstock_status>N</productstock_status>
    <code>S2839460</code>
    <companycode>839460</companycode>
    <groupcode>ABB02-AC</groupcode>
    <assignedgroupdescription text_pt-pt="Salamandras a ar Rita">Salamandras a a
r Rita</assignedgroupdescription>
    <image>https://[illegible]360/839460.jpg</image>
    <drawing />
    <utilizationorderratio>1</utilizationorderratio>
    <description text_pt-pt="Salamandra pellets ar Eva Calor Rita preta">Salaman
dra pellets ar Eva Calor Rita preta</description>
    <commercialdescription text_pt-pt="A RITA é uma salamandra a pellets ventila
da, com uma potência de 8 kW. Com acabamento em aço pintado e  painéis laterais
em  aço, de cores sóbrias e sofisticadas, distingue-se pela sua beleza e elegânc
ia. Com defletor em aço e ventilador tangencial, a RITA pode ligar-se a uma  cha
miné superior ou posterior. O seu controlo é feito através de um display simples
e intuitivo.">A RITA é uma salamandra a pellets ventilada, com uma potência de 8
kW. Com acabamento em aço pintado e  painéis laterais em  aço, de cores sóbrias
e sofisticadas, distingue-se pela sua beleza e elegância. Com defletor em aço e
ventilador tangencial, a RITA pode ligar-se a uma  chaminé superior ou posterio
r. O seu controlo é feito através de um display simples e intuitivo.</commercial
description>
    <linegrossprice>1293</linegrossprice>
```

```
    <addonitems>
      <prdaddonitem>
        <sequenceno>1</sequenceno>
        <linetype>ItemList</linetype>
        <amount>1</amount>
        <isrequired>false</isrequired>
        <addoncode></addoncode>
        <itemlistcode>sal_pel</itemlistcode>

        <itemlist>
          <prditemlist>
            <itemlistitems>
              <prditemlistitem>
                <itemcode>S2500000</itemcode>
                <quantity>1</quantity>
                <sequenceno>1</sequenceno>
              </prditemlistitem>
              <prditemlistitem>
                <itemcode>S2502001</itemcode>
                <quantity>1</quantity>
                <sequenceno>2</sequenceno>
              </prditemlistitem>
            </itemlistitems>
          </prditemlist>
        </itemlist>
      </prdaddonitem>
    </addonitems>
    <ownalternatives />
    <attachments>
      <gdbattachment>
        <location>https://[illegible]t/360/839460.jpg</location>
        <attachmenttypecode>PHI</attachmenttypecode>
        <description hyperlink="https://[illegible]/360/839460.jpg">839460.jp
g</description>
```

```
    <hasaddonitems>true</hasaddonitems>
    <addonitems>
      <prdaddonitem>
        <sequenceno>1</sequenceno>
        <linetype>ItemList</linetype>
        <amount>1</amount>
        <isrequired>false</isrequired>
        <addoncode></addoncode>
        <itemlistcode>sal_pel</itemlistcode>
        <itemlistdescription>Produtos relacionados salamandras pellets</itemlist
description>
        <itemlist>
          <prditemlist>
            <itemlistitems>
              <prditemlistitem>
                <itemcode>S2500000</itemcode>
                <quantity>1</quantity>
                <sequenceno>1</sequenceno>
              </prditemlistitem>
              <prditemlistitem>
                <itemcode>S2502001</itemcode>
                <quantity>1</quantity>
                <sequenceno>2</sequenceno>
              </prditemlistitem>
            </itemlistitems>
          </prditemlist>
        </itemlist>
      </prdaddonitem>
    </addonitems>
    <ownalternatives />
    <attachments>
      <gdbattachment>
        <path>https://[illegible]/360/839460.jpg</path>
        <attachmenttypecode>PHI</attachmenttypecode>
        <description hyperlink="[illegible]t/360/839460.jpg">839460.jp
g</description>
```