Internet Offer Format (IOF) for Shops ver. 2.6

Technical Specification

Language used in this document: English (en-US)

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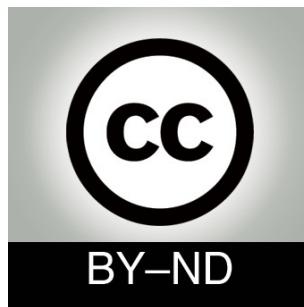
The scope of this document

The scope of this document deals with the product offer description format – **IOF (Internet Offer Format) for Shops** in **2.6** version. This format has been developed by IAI S.A. and is a sole property of this company.

It should be stressed that the use of the **IOF version 1.0 is unadvisable**, because it is considered obsolete. **We strongly recommend using IOF version 2.5 or later.**

Terms and Conditions of using IOF (Internet Offer Format) for Shops

Please note that any version of the **IOF (Internet Offer Format) for Shops** is a product of the IAI S.A. and is distributed on the terms of Creative Commons license defined by Creative Commons Attribution-No Derivative Works 2.5, including the following:

1. You are allowed to copy, distribute and to use the IOF format in terms defined hereby by the IAI S.A. and this document.
2. You may not alter, transform or use it in any modified form for any other purposes.

What has changed since 2.5

IOF for Shops version 2.6 released

IOF for Shops ver. 2.6 is currently available. We have extended functionality of this format, by adding new features listed below. This document concerns only the IOF for Shops ver. 2.6.

List of modifications made in 2.6 version

1. in the **gateway.xml** file:
   - we have added generating **full.xml** files for all languages of the shop from which the offer is generated and the possibility to download them through a manual change of the language parameter in the URL of this file.

2. in the **light.xml** file:
   - unification of the VAT rate for all product prices by removing attributes: **price/@vat**, **srp/@vat**, **sizes/size/price/@vat**, **sizes/size/srp/@vat** and adding the attribute **@vat** to the main product node,
   - adding a new node **product/strikethrough_price** containing the net and gross strikethrough price and the node **product/sizes/size/strikethrough_price** containing the above-mentioned prices for product sizes.

3. in the **full.xml** file:
   - changing the value of the **products/@language** attribute from the default shop language to the default receiver account language,
   - unification of the product currency by removing the **products/@currency** attribute from each product node, recalculating the prices to the currency connected with the language in which the offer has been generated and adding its value on the level of **products/@currency**,
   - removing the returning of the **@xml:lang** attribute from the level of the following nodes: categories, units of measure, series, parametres, their values and sections, guarantees due to returning the above-mentioned product features in one language - the receiver's,
   - removing the attribute **product/@code_producer** and in enchange adding **product@code_on_card** returning the information about the code displayed on the product card and adding the attribute **product/@producer_code_standard** with the information about the producer codes standard assigned to the sizes,

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- unification of the VAT rate for all product prices by removing attributes: **price/@vat**, **srp/@vat**, **sizes/size/price/@vat**, **sizes/size/srp/@vat** and adding the attribute **@vat** to the main product node,

- unification of the **product/description/version** node structure similarly to remaining subnodes of the **product/description** node,

- adding a new node **product/strikethrough_price** containing the net and gross strikethrough price and the node **product/sizes/size/strikethrough_price** containing the above-mentioned prices for product sizes,

- adding a new **product/sizes/size/@text_id** attribute containing the name of the size in the supplier's panel,

- adding a new **product/promotion** node returning the information about the name of the promotion in the supplier's panel **@name** and its ending date **@ending_date**,

- changing the **product/parameters/parameter** node structure by adding the **@type** attribute so that parametres and sections are returned in the same way - if an element is a section: **@type** = "*section*", if it is a parameter: **@type** = "*parameter*",

- adding to the nodes **product/parameters/parameter** and **product/parameters/parameter/value** the attribute: **@priority** containing the parameter's priority and the attribute **@iaiext:context_id** containing special contexts,

- adding subnodes **auction_icon** and **group_icon** to the node **product/images/icons** containing information about auction icons and group icons similarly to the common product icon,

- adding the **@first_product_id** attribute to the **product/group** node with the information about the first product in a product group,

- in the **product/attachments/file** node:
  - the value of the **version** attribute in the **product/attachments/file** node has been changed from "*demo*" to "*sample*",
  - the name of the attribute containing the information about the order of the given attachment has been changed from **@iaiext:priority** to **@priority** and its operation for virtual attachments has been added,
  - the name of the attribute containing the information about the extention type of the given attachment has been changed from **@iaiext:attachment_file_extension** to **@attachment_file_extension** and its operation for virtual attachments has been added,

- the operation for virtual attachments of the attribute **@iaiext:attachment_file_type** containing the information about the given extension type has been added.

Introduction

IOF for Shops ver. 2.6 is the product offer description format, based on XML. This format is fully portable and easy to implement in any IT system.

The **IOF for Shops** was developed for the **IAI Downloader** application. Although, it is possible to use this format in other system dedicated for processing data of products.

Learn more about the IAI Downloader

http://www.idosell.com/uk/shop/developers/formats/iof

This document concerns the entire structure of files included in the **IOF for Shops ver. 2.6** format and a client-oriented implementation procedure.

Attachments to this document:
- example XML files,
- example XSD files (XML Schema).

Learn more about XML

Learn more about XML Schema

Documentation files

Documentation versions

Following technical specification is available to download in two separated packages:

- **IOF for Shops ver. 2.6 functional specification in PDF,**
- **IOF for Shops ver. 2.6 functional specification in PDF, sample XML and XSD files** (ZIP archive should be unzipped after download).

Idea of IOF for Shops format

The **IOF for Shops** format uses meta-data to describe products for the **IAI Downloader**. It is not essential to use exactly that program. This format is ultra portable and can be used in any applications processing full data of products - for the needs of e-commerce. The **IOF for Shops** format describes products in **integration process** between **supplier** and **seller** (distributor), who wishes for the widest assortment and the best conditions of sale (Schematics no. 1).
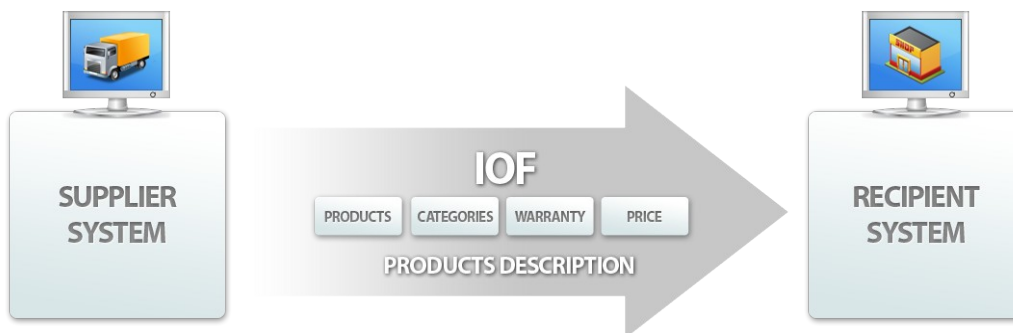
Schematics no. 1, The IOF principle of operation.

The **IOF for Shops** has modular structure referring to particular categories of information. Reference mechanism is performed via URL requests to files of the **IOF for Shops** format. An integral part of this document is the **gateway.xml** file, which is a so-called **gateway.** That file is a main part of the **IOF for Shops** format.

This file holds following elements:
- Meta-data describing a supplier,
- Information about time period within offer is valid,
- URL to file containing a full description of offer (**full.xml**),
- URL to file containing a short description of offer (**light.xml**),
- URL to file containing a list of categories (**categories.xml**),
- URL to file containing a list of sizes (**sizes.xml**),
- URL to file containing a list of producers (**producers.xml**),
- URL to file containing a list of measure units (**units.xml**),

- URL to file containing a list of parameters (**parameters.xml**),
- URL to file containing a list of product series (**series.xml**),
- URL to file containing a list of warranties (**warranties.xml**),
- URL to file containing a list of stocks (**stocks.xml**),
- URL to file containing configuration of offer import (**preset.xml**).

Schematics no. 2 shows a structure of the **IOF for Shops** files:
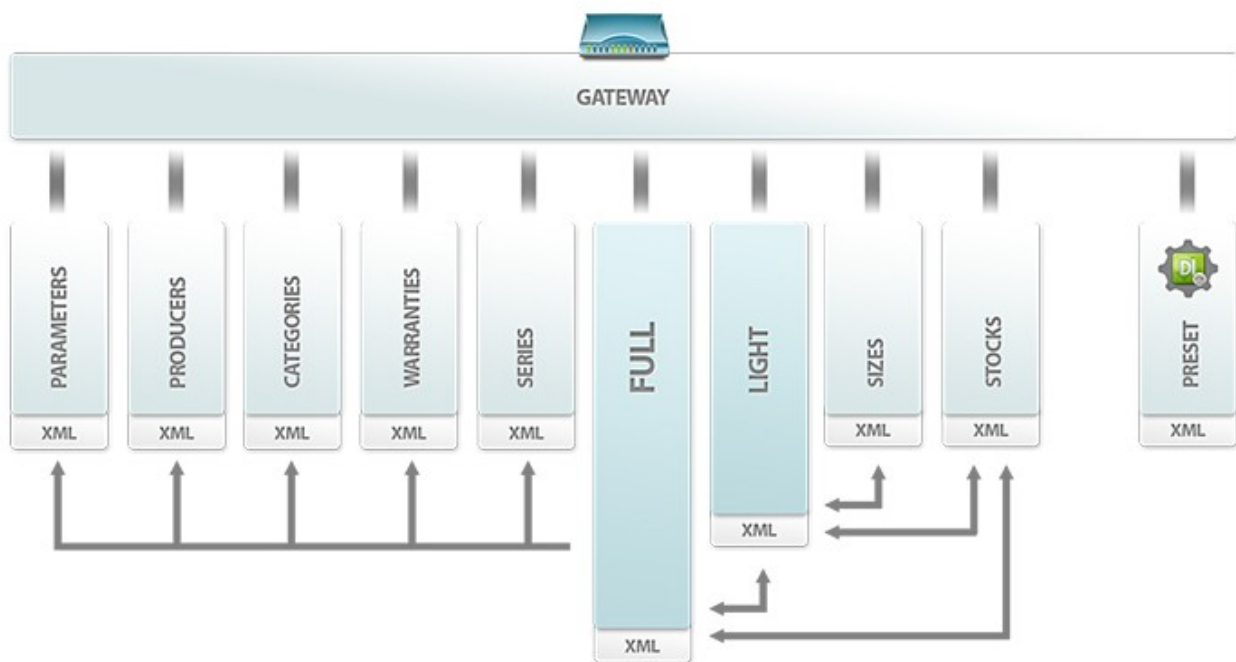
Explanation to Schematics no. 2:

- the main file of the format is the **gateway.xml**. It contains information on supplier and links to the rest of offer files,
- the first file of the format is the **full.xml**. It contains basic information of products – descriptions and titles multi-language, photos, attributes,
- second file is the **light.xml**. It contains information on stock quantities, producer codes, weights and prices,
- **stocks.xml, sizes.xml, series.xml, warranties.xml, categories.xml, units.xml, producers.xml, parameters.xml** are additional files, strictly associated with main files – they contain information on attributes multi-language of products in offer,
- **preset.xml** is file that contains configuration of offer import for the use by applications handling IOF for Shops offers.

All these elements are especially useful for those, who do not use the **IAI Downloader.** Why? Because it becomes easier to import and export product descriptions when you make use of the IOF for Shops format. So:

1. **If you are a seller** (offer receiver) prepare appropriate tools designed for processing XML files. If you do not have time to work with these files, you can use the **IAI Downloader** which is entirely integrated with the IdoSell.com system platform.

Learn how to integrate with wholesale store using the IAI-Shop.com/IdoSell.com system, which offers the two-way support for offer sharing in IOF for Shops format.

2. **If you are a supplier** (wholesaler), and you wish to integrate your wholesale store with retail stores, prepare an appropriate IOF for Shop format files in accordance with this specification. Familiarize yourself with structure and requirements of each file linked directly in the **gateway.xml**.

Learn how to become a wholesaler recommended by the IAI-Shop.com/IdoSell.com and have a built-in module to export offer in the IOF for Shops (for users from Poland).

In order to prepare particular XML files, familiarize yourself with contents of this document.

Descriptive conventions and common issues

There are many common issues that apply to all files of the IOF for Shops format. In order not to duplicate them, we introduce them in this section. It concerns tags and attributes in all XML files included in the IOF for Shops format.

To simplify the XML code, we have created following descriptive conventions for tags and attributes for the IOF for Shops XML and XSD files:

- **size@id** - specifies **size** tag and its attribute **id,**
- **@name** - specifies attribute **name** for current tag,
- **<product>** - specifies **product** tag.

Attributes such as **@code**, **@code_producer** may contain following symbols: **'0-9'**, **'a-z'**, **'A-Z'**, **'_'**, **'-'**. Content of attributes above must be unique for each product, size, etc. It is not allowed to enter the same **data to @id**, **@code and @code_producer tags**.

Every file must contain attributes of version and format (placed inside the main tag). For version 2.6 - **@file_format="IOF"** and **@version="2.6"**. In every of the IOF for Shops format files, except **gateway.xml**, there is an information about current language of particular file, e.g. **eng** – it is held in the main tag in **@language** attribute. This attribute is required.

An **xml:lang** attribute defines language of particular element. Click on the link below to check ISO 639.2 codes for the representation of names of languages.

[Codes arranged alphabetically by ISO 639-2 Code](#)

Elements supported by multi-language feature:

- name of product,
- short description of product,
- long description of product,
- name of category,

- name of size,

- name of unit of measure,

- name, description and graphics of parameters,

- name of series,

- name and description of warranty,

- name of attachment,

- name of stock.

Files such as: **categories.xml**, **unit.xml**, **series.xml**, **parameters.xml**, **warranties.xml, sizes.xml** may contain **@name** (file **warranties.xml** may include also **@description**) in many languages (thanks to **xml:lang** attribute) and those contents will be imported to the **IAI-Shop.com** by means of the **IAI Downloader**. These elements may be defined by only one language in the **full.xml** file - content in this language will be assigned to product.

Notice:

xml:lang attribute is optional in every element that supports multi-language feature.

The multi-language feature applies to: name of product, name of version product, name of group version product, its short and long description. The **full.xml** file may include those contents in many languages. All defined contents will be imported.

Every customer, for whom the IOF for Shops document is generated, is called a business or target customer.

Structure of gateway.xml file

It is the main file of the IOF for Shops format. This file contains data of supplier who share his offer to a business customer, and URL addresses to files of the IOF for Shops format, e.g. **full.xml** and **light.xml**.

<meta> section is required and specifies provider details and time period within which the offer is valid. The **<short_name>** tag cannot contain white-spaces. Only using symbols such as '**0-9**', '**a-z**', '**A-Z**', '**_**' is allowed.

Rest of required tags:

- **<full>** – URL to **full.xml** file containing the most important information about products, i.e. name, price provided by supplier, short description, long description, URL address to product tab, relations between categories, producers, picture information, file attachments etc.,
- **<light>** – URL to **light.xml** file containing information, which are also included in **full.xml** file, i.e. unique code, prices, weig and stock quantities for particular size,
- **<categories>** – URL to **categories.xml** file containing category tree,
- **<sizes>** – URL to **sizes.xml** file containing groups of sizes,
- **<producers>** – URL to **producers.xml** file containing information about producers.

Optional tags:

- **<units>** – URL to list of units of measure (**units.xml**),
- **<parameters>** – URL to list of parameters (**parameters.xml**),
- **<series>** – URL to list of product series (**series.xml**),
- **<warranties>** – URL list of warranties (**warranties.xml**),
- **<stocks>** - URL do list of stocks (**stocks.xml**),
- **<preset>** - URL to configuration of settings for application handling offers (**preset.xml**).

Notice for optional tags:

In case any unit of measure, series, warranty or dictionary are not specified for particular product in **full.xml**, empty additional tags will not be accepted. E.g. instead of specifying **<series />** tag, do not specify this tag at all:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<offer file_format="IOF" version="2.6" generated="2016-08-12 12:35:52"
extensions="yes" xmlns="http://www.iai-shop.com/developers/iof.phtml">
    <products language="eng" xmlns:iaiext="http://www.iai-
shop.com/developers/iof/extensions.phtml">
        <product id="1" currency="USD" vat="23.0"
producer_code_standard="GTIN14" code_on_card="REE-4315124/AA">
            <producer id="23" name="Bosh"/>
            <category id="10" name="Drill"/>
            <unit/>
            <series/>
        </product>
    </products>
</offer>
```

INCORRECT

```xml
<?xml version="1.0" encoding="UTF-8"?>
<offer file_format="IOF" version="2.6" generated="2016-08-12 12:35:52"
extensions="yes" xmlns="http://www.iai-shop.com/developers/iof.phtml">
    <products language="eng" xmlns:iaiext="http://www.iai-
shop.com/developers/iof/extensions.phtml">
        <product id="1" currency="USD" vat="23.0"
producer_code_standard="GTIN14" code_on_card="REE-4315124/AA">
            <producer id="23" name="Bosh"/>
            <category id="10" name="Drill"/>
            <unit id="1" name="pair"/>
            <series id="3" name="Tools"/>
        </product>
    </products>
</offer>
```

CORRECT

Below there is an example **gateway.xml** file:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<provider_description file_format="IOF" version="2.6" generated="2016-08-12 12:35:52">
    <meta>
        <long_name><![CDATA[My example]]></long_name>
        <short_name><![CDATA[Super store]]></short_name>
        <showcase_image url="http://iai-shop.com/gfx/iai-logo.gif"/>
        <email><![CDATA[support@superstore.com]]></email>
        <tel><![CDATA[+48 91 000 000]]></tel>
        <fax><![CDATA[+48 91 000 001]]></fax>
        <www><![CDATA[www.iai-shop.com]]></www>
        <address>
            <street><![CDATA[Al. Piastó w 30]]></street>
            <zipcode><![CDATA[71-064]]></zipcode>
            <city><![CDATA[Szczecin]]></city>
            <country><![CDATA[Polska]]></country>
        </address>
        <time>
            <offer date_created="2016-08-12 12:35:52"/>
            <offer date_expires="2017-08-12 12:35:52"/>
        </time>
    </meta>
    <full url="http://iai-shop.com/edi/export-offer.php?client=iaisa&language=eng&token=721d32b09a670c05f9bb40a&shop=1&type=full&format=xml&iof_2_6"/>
    <light url="http://iai-shop.com/edi/export-offer.php?client=iaisa&language=eng&token=d58ab1f23d77ad474b7b286&shop=1&type=light&format=xml&iof_2_6"/>
    <categories url="http://iai-shop.com/edi/export-offer.php?client=iaisa&language=eng&token=f2ba2eb6d2c4a68774feb8c&shop=1&type=categories&format=xml&iof_2_6"/>
    <sizes url="http://iai-shop.com/edi/export-offer.php?client=iaisa&language=eng&token=9d6d0b24a9f89b19bb8abc3&shop=1&type=sizes&format=xml&iof_2_6"/>
    <producers url="http://iai-shop.com/edi/export-offer.php?client=iaisa&language=eng&token=a567f251136b6c4d17f4014&shop=1&type=producers&format=xml&iof_2_6"/>
    <units url="http://iai-shop.com/edi/export-offer.php?client=iaisa&language=eng&token=f8bbef1ae62ea8123388061&shop=1&type=units&format=xml&iof_2_6"/>
    <parameters url="http://iai-shop.com/edi/export-offer.php?
```

client=iaisa&language=eng&token=3e394cf71e82cd3684c85f2&shop=1&type=parameters&format=xml&iof_2_6"/>

      <stocks url="http://iai-shop.com/edi/export-offer.php?

client=iaisa&language=eng&token=7f1c2e2adbd85492885008b&shop=1&type=stocks&format=xml&iof_2_6"/>

      <series url="http://iai-shop.com/edi/export-offer.php?

client=iaisa&language=eng&token=ed3e6b38738cec567444bc6&shop=1&type=series&format=xml&iof_2_6"/>

      <warranties url="http://iai-shop.com/edi/export-offer.php?

client=iaisa&language=eng&token=a40c8ccb63972010333736e&shop=1&type=warranties&format=xml&iof_2_6"/>

      <preset url="http://iai-shop.com/edi/export-offer.php?

client=iaisa&language=eng&token=b600c8ccb63972010333739e&shop=1&type=preset&format=xml&iof_2_6"/
>

</provider_description>

Structure of full.xml file

The full.xml file contains complex information about product including prices for target customer and stock quantities for particular sizes.

The <product> tag includes all the details of a single product: name, description, category, producer, unit of measure, sizes, series, warranty, parameters, asking price, strikethrough price, suggested retail price, url and images. Each product has a unique @id and @vat and @currency attributes containing information about the currency (compliant with the ISO-4217 standard) and about the rate of vat. Attributes @id and @currency are required, while @vat is optional.

The <description> tag contains name of product, its short and long description. All elements may be defined in multiple languages.

The <images> tag contains pictures and icons. Each picture may be described by optional attributes: @date_changed (las modified date in YYYY-MM-DD hh:mm:ss format), @hash (MD5 value), @width (the width of the image in pixels) and @height (the height of the image in pixels). These attributes are not required.

Asking price, strikethrough price, suggested retail price and URL to imported product may be also defined. Price of particular size and its stock quantity for target customer is defined in light.xml and full.xml files, but information on prices in the light.xml file has the highest priority.

IOF for Shops format allows to include file attachments to imported product. Types of files, that are attachments to products, should be described in accordance to MIME format. You can also determine limitations for attachment downloads by setting the number of days the file can be downloaded (limitation@days) or the number of downloads (limitation@downloads).

There are following relations between data:

- **product.producer@id** is related to **producers.producer@id** from **producers.xml**,
- **product.category@id** is related to **categories.category@id** from **categories.xml,**
- **product.unit@id** is related to **units.unit@id** from **units.xml**,
- **product.series@id** is related to **series.series@id** from **series.xml**,
- **product.warranty@id** is related to **warranties.warranty@id** from **warranties.xml**,
- **product.sizes.size@id** is related to **sizes.group.size@id** from **sizes.xml,**
- **product.sizes.size.stock@id** is related to **stocks.stock@id** from **stocks.xml,**
- **product.parameters.parameter@id** is related to parameters.**parameter@id** from **parameters.xml,**
- **product.parameters.parameter@id** with **@type** = "parameter" is related to parameters.**parameter@id** from **parameters.xml,**
- **product.parameters.parameter.@id** with **@type** = "section" is related to parameters.sections.section@id from **parameters.xml,**
- **product.parameters.parameter.value@id** is related to **parameters.values.value@id** from **parameters.xml**.

Groups of products

In the **2.6** version every product – both grouped and ungrouped – is on the same level in the **<product>** tag in the **<products>** tag. If you want to use the grouping options in the IOF for Shops, read the rules below:

- Every product in the indicated group should have a **<group>** element with the same values of **@id** and **@first_product_id** attributes that identify a group of products and at the same time identify the main product in this group,
- The **<group>** element that identifies the group should have at least one common parameter in every product – in a form of a **<group_by_parameter>** tag with the **@id** attribute and a parameter in a form of **<name>** tag (this parameter is optional),
- The **<group_by_parameter>** tag should have at least one parameter value that distinguishes the products in the group – in a form of a **<product_value>** tag with the **@id** attribute and a parameter in a form of **<name>** tag (this parameter is optional),
- There is no limit to use **<group_by_parameter>** and **<product_value>** parameters,
- Products from indicated group have the same value of **@id** attribute in the **<group>** tag,

- Products from the same group need to have the same **<group_by_parameter>** tags, but can have completely different **<product_value>** tags,
- Product name in group is built from values of all **<product_value>** tags, e.g. for information as in the example below (including full product name):

```xml
<?xml version="1.0" encoding="UTF-8"?>
<offer file_format="IOF" version="2.6" generated="2016-08-12 12:35:52" extensions="yes"
xmlns="http://www.iai-shop.com/developers/iof.phtml">
<products language="eng" xmlns:iaiext="http://www.iai-shop.com/developers/iof/extensions.phtml">
  <product id="1" currency="USD" vat="23.0" producer_code_standard="GTIN14" code_on_card="REE-
4315124/AA">
    <description>
      <name xml:lang="eng"><![CDATA[Adizero Feather 2 shoes]]></name>
    </description>
    <group id="168916" first_product_id="168916">
      <group_by_parameter id="0e38d01971c2e0604b93c9708d358c26">
        <name xml:lang="pol"><![CDATA[Materiał \ Przeznaczenie \ Wykoń czenie]]></name>
        <name xml:lang="eng"><![CDATA[Material \ Application \ Infrastructure]]></name>
        <product_value id="a4d335847fc4a6bc14af78a3ad8e107c">
          <name xml:lang="pol"><![CDATA[zamsz \ do latania \ jednolite]]></name>
          <name xml:lang="eng"><![CDATA[suede \ flying \ uniform]]></name>
        </product_value>
      </group_by_parameter>
    </group>
  </product>
</products>
</offer>
```

product name in group is **suede \ flying \ uniform** and the full product name is **Adizero Feather 2 shoes suede \ flying \ uniform,**

- **products.product.group.group_by_parameter@id** attribute can be related to **products.product.parameters.parameter@id** attribute and needs to be related to **parameters.parameters.parameter@id** attribute from the **parameters.xml** file,

- products.product.group.group_by_parameter.product_value@id attribute can be related to products.product.parameters.parameter.value@id and needs to be related to parameters.parameters.values.value@id from the parameters.xml file,

- Parameters and their values from <group> element should be used in <parameters> tag, but it's not mandatory. If there are no parameters nor values in <parameters> tag, but are present in <group>, parameters from <group> are concerned as more important and set as first (from the top) for indicated product in <parameters> tag,

An example of full.xml file can be found below:

```
<?xml version="1.0" encoding="UTF-8"?>
<offer file_format="IOF" version="2.6" generated="2016-08-01 12:35:52" extensions="yes"
xmlns="http://www.iai-shop.com/developers/iof.phtml">
    <products language="pol" xmlns:iaiext="http://www.iai-shop.com/developers/iof/extensions.phtml">
        <product id="1" currency="USD" vat="23.0" producer_code_standard="GTIN14"
code_on_card="REE-4315124/AA">
            <producer id="1269606482" name="Reebok"/>
            <category id="1233680906" name="Running with Reebok"/>
            <unit id="1" name="pair"/>
            <series id="1170" name="Summer 2016"/>
            <card url="http://exampleurladdress1.com"/>
            <description>
                <name xml:lang="pol"><![CDATA[Buty REEBOK ZIGWILD TRAIL]]></name>
                <name xml:lang="eng"><![CDATA[REEBOK ZIGWILD TRAIL shoes]]></name>
                <short_desc xml:lang="pol"><![CDATA[Męskie buty trailowe z innowacyjną podeszwą
ZigTech.]]></short_desc>
                <short_desc xml:lang="eng"><![CDATA[Men's running shoes with innovative ZigTech
sole.]]></short_desc>
                <long_desc xml:lang="pol"><![CDATA[Bezszwowa konstrukcja cholewki SmoothFit pomaga
ograniczyć ryzyko otarć.]]></long_desc>
                <long_desc xml:lang="eng"><![CDATA[SmoothFit seamless upper design helps reduce the risk
of abrasions.]]></long_desc>
            </description>
            <price gross="119.90" net="97.48"/>
            <strikethrough_price gross="350.00" net="284.55"/>
            <srp gross="449.99" net="365.85"/>
            <promotion xmlns:iaiext="http://www.iai-shop.com/developers/iof/extensions.phtml"
```

```
iaiext:name="Summer price reduction -20%" enable="yes" ending_date="2016-08-31" normal_price="149.88"
normal_price_net="121.85" promotion="yes" discount="no" distinguished="no" special="no"/>
            <sizes>
                <size id="757" text_id="57" code_producer="00000000000017" code="55905-217"
weight="1990">
                    <stock id="1" quantity="90"/>
                    <price gross="175.92" net="143.02"/>
                    <srp gross="400.00" net="325.20"/>
                    <strikethrough_price gross="450.00" net="365.85"/>
                </size>
                <size id="756" text_id="56" code_producer="00000000000024" code="55905-7641"
weight="2990">
                    <stock id="1" quantity="100"/>
                    <price gross="495.92" net="403.19"/>
                    <srp gross="800.00" net="650.41"/>
                    <strikethrough_price gross="850.00" net="691.06"/>
                </size>
                <size id="755" text_id="55" code_producer="00000000000031" code="55905-7644"
weight="3990">
                    <stock id="1" quantity="100"/>
                    <price gross="255.92" net="208.07"/>
                    <srp gross="500.00" net="406.50"/>
                    <strikethrough_price gross="550.00" net="447.15"/>
                </size>
            </sizes>
            <images>
                <large>
                    <image url="http://iai-shop.com/gfx/iai-logo.gif" date_changed="2016-07-14 00:00:00"
hash="c0" width="500" height="375"/>
                    <image url="http://iai-shop.com/gfx/iai-logo.gif" date_changed="2016-07-14 00:00:00"
hash="b7" width="500" height="375"/>
                </large>
                <icons>
                    <icon url="http://iai-shop.com/gfx/iai-logo.gif" date_changed="2016-07-10 00:00:00"
hash="7a" width="145" height="108"/>
                    <auction_icon url="http://iai-shop.com/gfx/iai-logo.gif" date_changed="2016-07-10
00:00:00" hash="7b" width="145" height="108"/>
```

```xml
            <group_icon url="http://iai-shop.com/gfx/iai-logo.gif" date_changed="2016-07-10
00:00:00" hash="7c" width="145" height="108"/>
          </icons>
        </images>
        <parameters>
          <parameter type="section" id="1308583769" priority="0">
            <name xml:lang="pol"><![CDATA[Info o firmie]]></name>
            <name xml:lang="eng"><![CDATA[About the company]]></name>
          </parameter>
          <parameter type="parameter" id="1308583770" priority="1">
            <name xml:lang="pol"><![CDATA[Firma]]></name>
            <name xml:lang="eng"><![CDATA[Company]]></name>
            <value id="1308583771" priority="0">
              <name xml:lang="pol"><![CDATA[PUMA]]></name>
              <name xml:lang="eng"><![CDATA[PUMA]]></name>
            </value>
          </parameter>
          <parameter type="parameter" id="1308583781" priority="2">
            <name xml:lang="pol"><![CDATA[Lokalizacja]]></name>
            <name xml:lang="eng"><![CDATA[Location]]></name>
          </parameter>
          <parameter type="section" id="1308583773" priority="3">
            <name xml:lang="pol"><![CDATA[Model obuwia]]></name>
            <name xml:lang="eng"><![CDATA[Model shoes]]></name>
          </parameter>
          <parameter type="parameter" id="1308580437" priority="4">
            <name xml:lang="pol"><![CDATA[Model]]></name>
            <name xml:lang="eng"><![CDATA[Model]]></name>
            <value id="1308583772" priority="0">
              <name xml:lang="pol"><![CDATA[SaoSao NG Kids]]></name>
              <name xml:lang="eng"><![CDATA[SaoSao NG Kids]]></name>
            </value>
          </parameter>
          <parameter type="parameter" id="1308583774" priority="5">
            <name xml:lang="pol"><![CDATA[Numer katalogowy]]></name>
            <name xml:lang="eng"><![CDATA[Catalog number]]></name>
            <value id="1308583775" priority="0">
```

```xml
            <name xml:lang="pol"><![CDATA[187459 04]]></name>
            <name xml:lang="eng"><![CDATA[187459 04]]></name>
        </value>
    </parameter>
    <parameter type="parameter" id="1308583788" priority="6">
        <name xml:lang="pol"><![CDATA[Podeszwa]]></name>
        <name xml:lang="eng"><![CDATA[Sole]]></name>
        <value id="1308583789" priority="0">
            <name xml:lang="pol"><![CDATA[materiał  syntetyczny]]></name>
            <name xml:lang="eng"><![CDATA[synthetic material]]></name>
        </value>
    </parameter>
    <parameter type="parameter" id="1308583784" priority="7">
        <name xml:lang="pol"><![CDATA[Cholewka]]></name>
        <name xml:lang="eng"><![CDATA[Shank]]></name>
        <value id="1308583785" priority="0">
            <name xml:lang="pol"><![CDATA[materiał  syntetyczny, materiał  tekstylny]]></name>
            <name xml:lang="eng"><![CDATA[synthetic material, textile]]></name>
        </value>
    </parameter>
    <parameter type="parameter" id="1302615358" priority="8">
        <name xml:lang="pol"><![CDATA[Kolor]]></name>
        <name xml:lang="eng"><![CDATA[Colour]]></name>
    </parameter>
    <parameter type="section" id="1308583776" priority="9">
        <name xml:lang="pol"><![CDATA[Dodatkowe informacje]]></name>
        <name xml:lang="eng"><![CDATA[Additional information]]></name>
    </parameter>
    <parameter type="parameter" id="1308583786" priority="10">
        <name xml:lang="pol"><![CDATA[Materiał  wewnętrzny]]></name>
        <name xml:lang="eng"><![CDATA[Inside material]]></name>
        <value id="1308583787" priority="0">
            <name xml:lang="pol"><![CDATA[materiał  tekstylny]]></name>
            <name xml:lang="eng"><![CDATA[textile material]]></name>
        </value>
    </parameter>
    <parameter type="parameter" id="1308583777" priority="11">
```

```xml
<name xml:lang="pol"><![CDATA[Dodatkowe informacje]]></name>
<name xml:lang="eng"><![CDATA[Additional information]]></name>
<value id="1308583778" priority="0">
    <name xml:lang="pol"><![CDATA[lekkie i wygodne]]></name>
    <name xml:lang="eng"><![CDATA[lightweight and comfortable]]></name>
</value>
<value id="1308583779" priority="1">
    <name xml:lang="pol"><![CDATA[PCV Free]]></name>
    <name xml:lang="eng"><![CDATA[PCV Free]]></name>
</value>
<value id="1308583780" priority="2">
    <name xml:lang="pol"><![CDATA[wykonane z szybkoschnącej pianki]]></name>
    <name xml:lang="eng"><![CDATA[the foam made with quick drying]]></name>
</value>
</parameter>
<parameter type="section" id="1308583783" priority="12">
    <name xml:lang="pol"><![CDATA[Gwarancja]]></name>
    <name xml:lang="eng"><![CDATA[Warranty]]></name>
</parameter>
</parameters>
<warranty id="1222786255" name="Warranty store"/>
<group id="1" first_product_id="1">
    <group_by_parameter id="0e38d01971c2e0604b93c9708d358c26">
        <name xml:lang="pol"><![CDATA[Materiał \ Przeznaczenie \ Wykoń czenie]]></name>
        <name xml:lang="eng"><![CDATA[Material \ Application \ Infrastructure]]></name>
        <product_value id="a4d335847fc4a6bc14af78a3ad8e107c">
            <name xml:lang="pol"><![CDATA[zamsz \ do latania \ jednolite]]></name>
            <name xml:lang="eng"><![CDATA[suede \ flying \ uniform]]></name>
        </product_value>
    </group_by_parameter>
</group>
<attachments>
    <file version="full" url="http://exampleattachment2.com/data/mybook_sample.pdf"
 type="application/x-mobipocket-ebook" date_changed="2012-09-05 00:00:00"
hash="b8a999d6d808b7af129303f620fd47">
        <name xml:lang="pol"><![CDATA[Moja książka]]></name>
        <name xml:lang="eng"><![CDATA[My book]]></name>
```

```xml
                <limitation downloads="2"/>
            </file>
            <file version="sample" url="http://exampleattachment2.com/data/atlas_sample.pdf"
type="application/pdf" date_changed="2012-09-05 00:00:00" hash="b8a999d6d808b7af129303f620fd47"/>
            <file version="full" url="http://exampleattachment2.com/data/mybook.pdf"
date_changed="2012-09-05 00:00:00" hash="b8a999d6d808b7af129303f620fd47">
                <name xml:lang="pol"><![CDATA[Moja książka]]></name>
                <name xml:lang="eng"><![CDATA[My book]]></name>
                <limitation downloads="3" days="30"/>
            </file>
            <file version="full" url="http://exampleattachment2.com/data/mybook.pdf"
date_changed="2012-09-05 00:00:00" hash="b8a999d6d808b7af129303f620fd47">
                <limitation days="30"/>
            </file>
            <file version="full" url="http://exampleattachment2.com/data/mybook.pdf"
date_changed="2012-09-05 00:00:00" hash="b8a999d6d808b7af129303f620fd47">
                <name xml:lang="pol"><![CDATA[Moja książka]]></name>
                <limitation downloads="2"/>
            </file>
            <file version="full" url="http://exampleattachment2.com/data/mybook.pdf"
date_changed="2010-09-05 00:00:00" hash="b8a999d6d808b7af129303f620fd47"/>
        </attachments>
    </product>
```

Structure of light.xml file

The **light.xml** file contains information about product prices in currency for target customer (also for sizes) and stock level of particular sizes.

Price of particular product is contained in **<price>** tag. Price is automatically calculated to currency requested by target customer – in **@currency** attribute.

Each **<product>** has an unique **@id** (the same as in **full.xml** file) and **@vat** tag. Within **<product>** tag, a **<price>** tag with **@net** attribute is required. To specify different prices for particular **<size>**, enter a **<price>** tag within **<size>**.

Suggested retail price (SRP) may be defined for each product in **<srp>** tag. That tag may contain information about gross price, net price. That tag is optional.

Strikethrough price (STP) may be defined for each product in **<strikethrough_price>** tag. That tag may contain information about gross price, net price. That tag is optional.

Each size has following attributes: **@id**, **@code**, **@code_producer, @weight**.
Required attributes:
- **@id** – size ID (the same ID used in **full.xml** file)
- **@code** – unique product code, e.g. 1454-03

Optional attributes:
- **@code_producer** – manufacturer code
- **@weight** – weight of product in particular size

Information of price of particular size is an optional feature. Optional is also a product quantity. A **<stock>** tag contains information about **@quantity** of product (product in particular size). Remember, that stock **@id** should be specified.

Example stocks in IdoSell.com and their **@id** attributes:

- M0 – id="0"
- M1 – id="1"
- M2 – id="2" etc.

@quantity attribute may contain a fractional value.

Notice:

-1 value in **@quantity** attribute is interpreted by the **IAI Downloader** and **IdoSell.com** platform as an infinity value of stock level.

There are following relations between data:

- **product.sizes.size@id** tag is related to **sizes.group.size@id** from **sizes.xml**,
- **product.sizes.size.stock@id** is related to **stocks.stock@id** from **stocks.xml**,
- product price is assembled from following fields:
  - offer.products.product.price@gross
  - offer.products.product.price@net

In case only **@net** price is specified, it shall be set as a retail price.

In both cases, **product@vat** is not required.

An example <u>light.xml</u> file can be found below:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<offer file_format="IOF" version="2.6" generated="2016-08-01 12:35:52" >
<products currency="USD">
    <product id="1" vat="23.0">
        <price gross="15.06" net="12.24"/>
        <srp gross="57.62" net="46.85"/>
        <strikethrough_price gross="30.12" net="24.49"/>
        <sizes>
            <size id="7641" code_producer="00000000000024"  code="55905-7641"  weight="2990" >
            <price gross="495.92" net="403.19"/>
            <srp gross="800.00" net="650.41"/>
            <strikethrough_price gross="850.00" net="691.06"/>
                <stock id="1" quantity="100"/>
            </size>
            <size id="7644" code_producer="00000000000031"  code="55905-7644"  weight="3990" >
```

```xml
<price gross="255.92" net="208.07"/>
<srp gross="500.00" net="406.50"/>
<strikethrough_price gross="550.00" net="447.15"/>
        <stock id="1" quantity="100"/>
    </size>
    <size id="7646" code_producer="00000000000048"  code="55905-7646"  weight="4990" >
        <price gross="102.39" net="83.24"/>
        <srp gross="172.86" net="140.54"/>
        <strikethrough_price gross="143.05" net="116.30"/>
        <stock id="1" quantity="100"/>
    </size>
    <size id="7648" code_producer="00000000000055"  code="55905-7648"  weight="5990" >
        <price gross="57.22" net="46.52"/>
        <srp gross="115.24" net="93.69"/>
        <strikethrough_price gross="86.58" net="70.39"/>
        <stock id="1" quantity="40"/>
    </size>
    <size id="7649" code_producer="00000000000062"  code="55905-7649"  weight="6990" >
        <price gross="117.45" net="95.49"/>
        <srp gross="192.06" net="156.15"/>
        <strikethrough_price gross="161.87" net="131.60"/>
        <stock id="1" quantity="70"/>
    </size>
        </sizes>
    </product>
</products>
</offer>
```

Structure of categories.xml file

The **categories.xml** file uses a tree structure to present all product categories. Every category has an **@id** and **@name** attributes which have an unique content. These attributes are required. Each category may contain subcategories. The multi-language feature is available for every **@name** attribute of category.

An example **categories.xml** file can be found below:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<categories file_format="IOF" version="2.6" language="eng" generated="2016-08-12 12:35:52">
    <category id="1222083475" name="Bieganie z Nike">
        <name xml:lang="pol">Bieganie z Nike</name>
        <name xml:lang="eng">Running with Nike</name>
    </category>
    <category id="1233680906" name="Bieganie z Reebok">
        <name xml:lang="pol">Bieganie z Reebok</name>
        <name xml:lang="eng">Running with Reebok</name>
    </category>
    <category id="1233677105" name="Bieganie z Adidas">
        <name xml:lang="pol">Bieganie z Adidas</name>
        <name xml:lang="eng">Running with Adidas</name>
        <category id="1233677121" name="Buty">
            <name xml:lang="pol">Buty</name>
            <name xml:lang="eng">Shoes</name>
        </category>
    </category>
    <category id="35" name="Inne">
        <name xml:lang="pol">Inne</name>
        <name xml:lang="eng">Others</name>
    </category>
</categories>
```

Structure of sizes.xml

File **sizes.xml** defines groups of sizes and same sizes as well. Each product may be assigned only to one group of sizes. Similarly to product categories, every group and size require to be specified by **@id** and **@name** tags. **@name** and **@id** tags should be unique within group – the same as for sizes in groups. **@id** and **@name** tags of each size may be duplicated, if particular sizes are in different groups. The multi-language feature is available for **size@name** attribute.

An example sizes.xml file can be found below:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<sizes file_format="IOF" version="2.6" language="eng" generated="2016-08-12 12:35:52">
  <group id="-1" name="Grupa rozmiaru uniwersalnego">
    <size id="0" name="uniwersalny">
      <name xml:lang="eng">onesize</name>
      <name xml:lang="pol">uniwersalny</name>
    </size>
  </group>
  <group id="1271319313" name="Buty Nike">
    <size id="783" name="43">
      <name xml:lang="eng">8.5</name>
      <name xml:lang="pol">43</name>
    </size>
    <size id="782" name="44">
      <name xml:lang="eng">9</name>
      <name xml:lang="pol">44</name>
    </size>
  </group>
  <group id="1271319287" name="Buty Reebok">
    <size id="7641" name="43">
      <name xml:lang="eng">8</name>
      <name xml:lang="pol">43</name>
    </size>
    <size id="7644" name="43.5">
      <name xml:lang="eng">8.5</name>
```

```xml
        <name xml:lang="pol">43.5</name>
      </size>
      <size id="7646" name="44">
        <name xml:lang="eng">9</name>
        <name xml:lang="pol">44</name>
      </size>
      <size id="7648" name="44.5">
        <name xml:lang="eng">9.5</name>
        <name xml:lang="pol">44.5</name>
      </size>
      <size id="7649" name="45">
        <name xml:lang="eng">10</name>
        <name xml:lang="pol">45</name>
      </size>
    </group>
    <group id="1271319287" name="Buty Adidas">
      <size id="323" name="40">
        <name xml:lang="eng">7</name>
        <name xml:lang="pol">40</name>
      </size>
      <size id="324" name="40.5">
        <name xml:lang="eng">7.5</name>
        <name xml:lang="pol">40.5</name>
      </size>
      <size id="325" name="41">
        <name xml:lang="eng">8</name>
        <name xml:lang="pol">41</name>
      </size>
    </group>
  </sizes>
```

Structure of parameters.xml

The **parameters.xml** file defines all parameters of products, that may be useful for detailed, technical description of products. File consists of three independent lists:

- **<parameters>** – contains all parameters assigned to products in offer,
- **<values>** – contains all parameters' values,
- **<sections>** – contains all visual sections and can be used to separate consecutive parameters assigned to product.

All elements nested in following lists have the **@id** attribute, which has to be unique in the **parameters.xml** file. **@id** attribute is used to identify parameters, parameters' values and sections with the **full.xml**.

Every element of **<section>**, **<parameter>**, **<value>** can contain:

- name in different languages – by means of **xml:lang** attribute in **<name>** tag,
- description in different languages – by means of **xml:lang** attribute in **<description>** tag,
- icons in different languages – by means of **xml:lang** attribute in **<card>** and **<list>** tags nested in **<icons>**.

Example shown below presents products parameters held in all three lists.

An example **parameters.xml** file can be found below:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<parameters file_format="IOF" version="2.6" language="eng" generated="2016-08-12 12:35:52">
  <sections>
    <section id="1" name="Podeszwa">
      <name xml:lang="pol">Podeszwa</name>
      <name xml:lang="eng">Sole</name>
    </section>
    <section id="13" name="Systemy">
      <name xml:lang="pol">Systemy</name>
      <name xml:lang="eng">Systems</name>
```

```xml
      <description xml:lang="pol"><![CDATA[Informacja o wspieranych systemach.]]></description>
      <description xml:lang="eng"><![CDATA[Information about supported systems.]]></description>
      <icons>
        <card xml:lang="pol" url="http://server3.com/images/4/54135pl.jpg"/>
        <card xml:lang="eng" url="http://server3.com/images/4/54135en.jpg"/>
        <list xml:lang="pol" url="http://server3.com/images/4/67165pl.jpg"/>
        <list xml:lang="eng" url="http://server3.com/images/4/67165en.jpg"/>
      </icons>
    </section>
    <section id="14" name="Informacje ogólne">
      <name xml:lang="pol">Informacje ogólne</name>
      <name xml:lang="eng">General information</name>
    </section>
  </sections>
  <parameters>
    <parameter id="1111" name="Kolor">
      <name xml:lang="pol">Kolor</name>
      <name xml:lang="eng">Color</name>
    </parameter>
    <parameter id="1112" name="Wiązanie">
      <name xml:lang="pol">Wiązanie</name>
      <name xml:lang="eng">Binding type</name>
    </parameter>
    <parameter id="2" name="Materiał ">
      <name xml:lang="pol">Materiał </name>
      <name xml:lang="eng">Fabric</name>
    </parameter>
    <parameter id="31" name="Długość">
      <name xml:lang="pol">Długość</name>
      <name xml:lang="eng">Length</name>
    </parameter>
    <parameter id="56" name="Szerokość">
      <name xml:lang="pol">Szerokość</name>
      <name xml:lang="eng">Width</name>
    </parameter>
    <parameter id="88" name="Wyjmowana wkładka">
      <name xml:lang="pol">Wyjmowana wkładka</name>
```

```
    <name xml:lang="eng">Removable footbed</name>
    <description xml:lang="pol"><![CDATA[Określa czy wkładka może zostać swobodnie wyciągnięta z buta,
czy jest przyklejona.]]></description>
    <description xml:lang="eng"><![CDATA[Determines whether a footbed can be easily removed out of
shoe.]]></description>
    <icons>
      <card xml:lang="pol" url="http://server3.com/images/4/5435pl.jpg"/>
      <card xml:lang="eng" url="http://server3.com/images/4/5435en.jpg"/>
      <list xml:lang="pol" url="http://server3.com/images/4/6765pl.jpg"/>
      <list xml:lang="eng" url="http://server3.com/images/4/6765en.jpg"/>
    </icons>
  </parameter>
  <parameter id="22" name="Dynamic Sport">
    <name xml:lang="pol">Dynamic Sport</name>
    <name xml:lang="eng">Dynamic Sport System</name>
  </parameter>
  <parameter id="25" name="Airflow">
    <name xml:lang="pol">Airflow</name>
    <name xml:lang="eng">Airflow System</name>
  </parameter>
  <parameter id="29" name="Nike+">
    <name xml:lang="pol">Nike+</name>
    <name xml:lang="eng">Nike+ System</name>
  </parameter>
  <parameter id="30" name="miCoach">
    <name xml:lang="pol">miCoach</name>
    <name xml:lang="eng">miCoach System</name>
  </parameter>
  <parameter id="39" name="ZigZag">
    <name xml:lang="pol">ZigZag</name>
    <name xml:lang="eng">ZigZag System</name>
  </parameter>
 </parameters>
 <values>
  <value id="6as" name="Tak">
   <name xml:lang="pol">Tak</name>
   <name xml:lang="eng">Yes</name>
```

```xml
    </value>
    <value id="7" name="Nie">
      <name xml:lang="pol">Nie</name>
      <name xml:lang="eng">No</name>
    </value>
    <value id="90" name="175 mm">
      <name xml:lang="pol">175 mm</name>
      <name xml:lang="eng">175 mm</name>
    </value>
    <value id="91" name="180 mm">
      <name xml:lang="pol">180 mm</name>
      <name xml:lang="eng">180 mm</name>
    </value>
    <value id="92" name="160 mm">
      <name xml:lang="pol">160 mm</name>
      <name xml:lang="eng">160 mms</name>
    </value>
    <value id="93" name="165 mm">
      <name xml:lang="pol">165 mm</name>
      <name xml:lang="eng">165 mm</name>
    </value>
    <value id="94" name="170 mm">
      <name xml:lang="pol">170 mm</name>
      <name xml:lang="eng">170 mm</name>
    </value>
    <value id="95" name="155 mm">
      <name xml:lang="pol">155 mm</name>
      <name xml:lang="eng">155 mm</name>
    </value>
    <value id="96" name="23 mm">
      <name xml:lang="pol">23 mm</name>
      <name xml:lang="eng">23 mm</name>
    </value>
    <value id="97" name="24 mm">
      <name xml:lang="pol">24 mm</name>
      <name xml:lang="eng">24 mm</name>
    </value>
```

```
<value id="98" name="25 mm">
  <name xml:lang="pol">25 mm</name>
  <name xml:lang="eng">25 mm</name>
</value>
<value id="99" name="26 mm">
  <name xml:lang="pol">26 mm</name>
  <name xml:lang="eng">26 mm</name>
</value>
<value id="100" name="27 mm">
  <name xml:lang="pol">27 mm</name>
  <name xml:lang="eng">27 mm</name>
</value>
<value id="101" name="28 mm">
  <name xml:lang="pol">28 mm</name>
  <name xml:lang="eng">28 mm</name>
</value>
<value id="12" name="Tworzywo syntetyczne">
  <name xml:lang="pol">Tworzywo syntetyczne</name>
  <name xml:lang="eng">Synthetic materials</name>
  <description xml:lang="pol"><![CDATA[Informacja o użytych materiał ach.]]></description>
  <description xml:lang="eng"><![CDATA[Information about used materials.]]></description>
  <icons>
    <card xml:lang="pol" url="http://server3.com/images/4/51435pl.jpg"/>
    <card xml:lang="eng" url="http://server3.com/images/4/51435en.jpg"/>
    <list xml:lang="pol" url="http://server3.com/images/4/61765pl.jpg"/>
    <list xml:lang="eng" url="http://server3.com/images/4/61765en.jpg"/>
  </icons>
</value>
<value id="17" name="Skó ra">
  <name xml:lang="pol">Skó ra</name>
  <name xml:lang="eng">Leather</name>
</value>
<value id="84" name="Poliester">
  <name xml:lang="pol">Poliester</name>
  <name xml:lang="eng">Polyester</name>
</value>
<value id="89" name="Kauczuk">
```

```xml
    <name xml:lang="pol">Kauczuk</name>
    <name xml:lang="eng">Rubber</name>
  </value>
  <value id="143" name="Pianka">
    <name xml:lang="pol">Pianka</name>
    <name xml:lang="eng">Mousse</name>
  </value>
  <value id="3333" name="czerwony">
    <name xml:lang="pol">czerwony</name>
    <name xml:lang="eng">red</name>
  </value>
  <value id="3334" name="niebieski">
    <name xml:lang="pol">niebieski</name>
    <name xml:lang="eng">blue</name>
  </value>
  <value id="3335" name="sznuró wki">
    <name xml:lang="pol">sznuró wki</name>
    <name xml:lang="eng">laces</name>
  </value>
  <value id="3336" name="zielony">
    <name xml:lang="pol">zielony</name>
    <name xml:lang="eng">green</name>
  </value>
  <value id="3337" name="żół ty">
    <name xml:lang="pol">żół ty</name>
    <name xml:lang="eng">yellow</name>
  </value>
  <value id="3338" name="rzepy">
    <name xml:lang="pol">rzepy</name>
    <name xml:lang="eng">velcro</name>
  </value>
  <value id="3339" name="ró żowy">
    <name xml:lang="pol">ró żowy</name>
    <name xml:lang="eng">pink</name>
  </value>
  <value id="3340" name="biał y">
    <name xml:lang="pol">biał y</name>
```

```xml
        <name xml:lang="eng">white</name>
      </value>
      <value id="3341" name="brak">
        <name xml:lang="pol">brak</name>
        <name xml:lang="eng">none</name>
      </value>
    </values>
  </parameters>
```

Structure of producers.xml, units.xml and series.xml

These files have a similar structure, so all three of them are discussed in one section. Content of these files includes main tags consisting of **@id** and **@name** attributes. The multi-language feature is not available for **@name** attribute in **<producer>** tag. The multi-language feature is available for **<name>** tags in **<unit>** and **<series>** tags.

Sample files are included in ZIP archive: **producers.xml**, **series.xml** and **units.xml.**

Structure of warranties.xml

This file includes an information about warranties. One product may be assigned to only one warranty.

Similarly to product categories, every **<warranty>** requires to be specified by **@id** and **@name** attributes. Warranty terms may be specified in **<terms>** tag by following attributes:

- **@type** (defines a provider of warranty) – three values are available: **seller, producer, none**,
- **@period_number** (defines number of months within warranty is valid) – integer value,
- **@period_unit** (defines name of time unit) – one value is available: **month**.

The **<terms>** tag is an optional-one, but all other three attributes are required when **<terms>** tag is specified for **<warranty>**.

The multi-language feature is available for **<name>** and **<description>** tags.

An example <u>warranties.xml</u> file can be found below:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<warranties file_format="IOF" version="2.6" language="pol" generated="2016-08-01 12:35:52">
  <warranty id="1222786255" name="Gwarancja sklepu">
    <terms type="seller" period_number="12" period_unit="month"/>
    <name xml:lang="pol"><![CDATA[Gwarancja sklepu na 12 miesięcy]]></name>
    <description xml:lang="pol"><![CDATA[Gwarancja obejmuje zwrot towaru.]]></description>
    <name xml:lang="eng"><![CDATA[Seller's warranty for 12 months]]></name>
    <description xml:lang="eng"><![CDATA[The warranty covers the return of the goods.]]></description>
  </warranty>
  <warranty id="1211183111" name="Gwarancja producenta">
    <terms type="producer" period_number="24" period_unit="month"/>
    <name xml:lang="pol"><![CDATA[Gwarancja producenta na 24 miesiące]]></name>
    <description xml:lang="pol"><![CDATA[Gwarancja obejmuje zwrotu towaru na karcie
gwarancyjnej.]]></description>
    <name xml:lang="eng"><![CDATA[Producer's warranty for 24 months]]></name>
    <description xml:lang="eng"><![CDATA[The warranty covers the return of the goods on warranty
card.]]></description>
  </warranty>
</warranties>
```

Structure of stocks.xml

File holds information on stocks, products from offer are present. Stocks are displayed as a lists. Each stock has its **@id** attribute and name, that can be entered in multiple languages in the **@name** attribute.

The multi-language feature is available for **<name>** tag.

An example <u>stocks.xml</u> file can be found below:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<stocks file_format="IOF" version="2.6" language="eng" generated="2016-08-12 12:35:52">
  <stock id="0" name="Magazyn dostawcy">
    <name xml:lang="pol">Magazyn dostawcy</name>
    <name xml:lang="eng">Provider's stock</name>
  </stock>
  <stock id="1" name="Magazyn Warszawa">
    <name xml:lang="pol">Magazyn Warszawa</name>
    <name xml:lang="eng">Stock in Warsaw</name>
  </stock>
  <stock id="2" name="Magazyn Szczecin">
    <name xml:lang="pol">Magazyn Szczecin</name>
    <name xml:lang="eng">Stock in Stettin</name>
  </stock>
  <stock id="3" name="Magazyn Poznań ">
    <name xml:lang="pol">Magazyn Poznań </name>
    <name xml:lang="eng">Stock in Poznan</name>
  </stock>
</stocks>
```

Structure of preset.xml

The **preset.xml** file has been developed for the needs of applications handling offers in the IOF for Shops format. It contains multiple supplier settings, that can be read by application with every offer import and synchronization.

This option is particularly helpful, when import configurations plays a very important role and the entity – which wants to use the IOF for Shops – wants to gain a ready-to-use offer from supplier. Provided **preset.xml** file – with a set of settings uploaded directly to application – allows for service-free offer of import.

Notice:

IAI Downloader fully supports **preset.xml** file. It can of course generate **preset.xml** file with import settings and download import settings from provided **preset.xml** file.

Explanations to specific tags can be found below. They allow to properly configure IOF for Shops files for applications handling offers, i.e. **IAI Downloader**:

- **long_name**, **short_name**, **showcase_image**, **description**, **email**, **tel**, **fax**, **www**, **address_street**, **address_zipcode**, **address_city**, **address_country**, **currency**, **offerCreated**, **offerExpires** – supplier data, which will be displayed in application,

- **url**, **full**, **light**, **categories**, **sizes**, **producers**, **units**, **parameters**, **series**, **traits**, **warranties**, **stocks** – URLs to specific offer files,

- **categories_auto_mapping**, **sizes_auto_mapping**, **series_auto_mapping**, **units_auto_mapping** – can contain **True** or **False** values, that are responsible for turning on/off an automatic elements mapping/assignment,

- **selected** – can contain **True** or **False** values, that are responsible for selecting/deselecting supplier offer to be synchronized on the application list,

- **remote_gateway** – contains **True** or **False** values that are responsible for the **gateway.xml** file is/is not present on the computer local hard drive,

- **fully_configured** – contains **True** or **False** values, that are responsible for full configuration of offer and its readiness to be synchronized,

- **external_program** – contains True or False values, that are responsible for the offer source (application plugin),
- **external_program_xml_path** – URL to the **gateway.xml** file, generated by the application plugin,
- **size_code_prefix** – prefix added to external system codes,
- **old_size_code_prefix** – obsolete and unused element,
- **iai_shop_deliverer_id** – supplier ID, to which products from offer should be assigned,
- **plugin_id** – plugin ID,
- **size_code_auto** – contains True or False values, that are responsible for turning on/off an option of automatic building external system codes from prefix and product/size@id XML node,
- **size_code_code_size** - contains True or False values, that are responsible for turning on/off an option of downloading external system codes from product/size@code XML node,
- **update_name**, **update_short_description**, **update_long_description**, ... - contains **1** or **0** values, that are responsible for turning on/off update of selected attribute during synchronization process,
- **updateExtSysCodePending** – outdated and unused element,
- **debug_product_import** - contains True or False values, that are responsible for turning on/off option of confirming each import of a new product (debug mode),
- **debug_product_update** - contains True or False values, that are responsible for turning on/off option of confirming each update of product in system,
- **debug_product_always_import** - contains True or False, that are responsible for importing/not importing each new product from offer to system,
- **debug_product_always_update** - contains True or False, that are responsible for updating/not updating each product in the system to find out if they have changed,
- **products_allowed_operations** – contains application rights to perform changes in the system:
  - **all** – application can edit synchronized products and nullify stock quantities in the system,
  - **edit** – application can edit synchronized products – perform changes in the system,
  - **reset** – application can nullify stock quantities of synchronized products in the system,
- **version_mode** – contains values for grouped products import mode:
  - **1** – import products groups in accordance to supplier offer,
  - **0** – import only first products from groups,
  - **2** – import all products from groups as separate products,
- **gatewayGeneratedOn** – date and hour data of **gateway.xml** file generation,

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- **full_lastModified**, **light_lastModified**, **categories_lastModified**, … - date and hour of last modification of selected file,

- **providerImageLastModified** – date and hour of last modification of (**<showcase_image>**) supplier picture,

- **imageHash** – hash for (**<showcase_image>**) supplier picture,

- **full_xml_generated**, **light_xml_generated**, **categories_xml_generated**, … - date and hour of selected file generation,

- **clonedProductsMode** – outdated and unused element,

- **overwrite_products** – contains **True** or **False** values and determines if all pictures and descriptions should be overwritten during the next synchronization process,

- **SRP_price** - contains **1** or **0** values, that are responsible for turning on/off downloading information on SRP from supplier option.

- **STP_price** - contains **1** or **0** values, that are responsible for turning on/off downloading information on STP from supplier option.

- **offer_from_bridge** – contains **1** or **0** values and determines if an offer is generated by IAI Bridge program.

- **culture_info** – contains information about applied format for numbers and dates.

An example **preset.xml** file can be found below:

```xml
<?xml version="1.0" encoding="utf-8"?>
<preset file_format="IOF" version="2.6" generated="2016-08-01 12:35:52">
 <long_name>example</long_name>
 <short_name>example offer</short_name>
 <showcase_image_url>http://link_to_company_logo.jpg</showcase_image_url>
 <description>example description</description>
 <email>support@superstore.com</email>
 <tel>+48 91 000 000</tel>
 <fax>+48 91 000 001</fax>
 <www>www.iai-shop.com</www>
 <address_street>Madaliń skiego 8</address_street>
 <address_zipcode>76-234</address_zipcode>
 <address_city>Szczecin</address_city>
 <address_country>Poland</address_country>
 <currency></currency>
```

```xml
<url>path_or_link_to_gateway.xml_file</url>
<full>path_or_link_to_full.xml_file</full>
<light>path_or_link_to_light.xml_file</light>
<categories>path_or_link_to_categories.xml_file</categories>
<sizes>path_or_link_to_sizes.xml_file</sizes>
<categories_auto_mapping>True</categories_auto_mapping>
<selected>False</selected>
<remote_gateway></remote_gateway>
<fully_configured>True</fully_configured>
<external_program>True</external_program>
<external_program_xml_path>path_to_external_offer_file</external_program_xml_path>
<producers>path_to_producers.xml_file</producers>
<units>path_or_link_to_units.xml_file</units>
<parameters>path_or_link_to_parameters.xml_file</parameters>
<stocks>path_or_link_to_stocks.xml_file</stocks>
<series>path_or_link_to_series.xml_file</series>
<sizes_auto_mapping>True</sizes_auto_mapping>
<units_auto_mapping>True</units_auto_mapping>
<size_code_prefix>example-</size_code_prefix>
<old_size_code_prefix>previous-</old_size_code_prefix>
<size_code_auto>True</size_code_auto>
<size_code_code_size>False</size_code_code_size>
<update_name>1</update_name>
<update_short_description>1</update_short_description>
<update_long_description>1</update_long_description>
<update_version_name>1</update_version_name>
<update_series>1</update_series>
<update_producer>1</update_producer>
<update_category>1</update_category>
<update_unit>1</update_unit>
<update_price>1</update_price>
<update_icon>1</update_icon>
<update_images>1</update_images>
<update_quantities>1</update_quantities>
<products_allowed_operations>all,edit,reset</products_allowed_operations>
<update_code_producer>1</update_code_producer>
<update_deliverer>1</update_deliverer>
```

```xml
<version_mode>1</version_mode>
<debug_product_import>True</debug_product_import>
<debug_product_update>True</debug_product_update>
<debug_product_always_import>False</debug_product_always_import>
<debug_product_always_update>False</debug_product_always_update>
<gatewayGeneratedOn>2012-09-05 09:44:09</gatewayGeneratedOn>
<full_lastModified></full_lastModified>
<light_lastModified></light_lastModified>
<categories_lastModified></categories_lastModified>
<sizes_lastModified></sizes_lastModified>
<producers_lastModified></producers_lastModified>
<units_lastModified></units_lastModified>
<series_lastModified></series_lastModified>
<warranties_lastModified></warranties_lastModified>
<stocks_lastModified></stocks_lastModified>
<providerImageLastModified></providerImageLastModified>
<imageHash></imageHash>
<offerCreated>2012-09-05 09:44:09</offerCreated>
<offerExpires>2012-09-19 09:44:09</offerExpires>
<warranties>path_or_link_to_warraties.xml_file</warranties>
<clonedProductsMode>0</clonedProductsMode>
<overwrite_products>False</overwrite_products>
<update_weight>1</update_weight>
<update_visibility>1</update_visibility>
<SRP_price>0</SRP_price>
<STP_price>0</SRP_price>
<offer_from_bridge>0</offer_from_bridge>
<update_size>1</update_size>
<culture_info>pl-PL</culture_info>
</preset>
```

Document history

Technical specification of the Internet Offer Format (IOF) ver. 2.1

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