

RSS feed

XML

```
<?xml version="1.0"?>
<rss version="2.0" xmlns:media="http://search.yahoo.com/mrss/">
  <channel>
    <item>
      <guid>661e4533afef0661e4533afef4</guid>
      <title>20% discount</title>
      <description>Grocery from local distributors</description>
      <category/>
      <pubDate>2024-04-16 00:00:00</pubDate>
      <endDate>2024-05-21 00:00:00</endDate>
      <changeDate>2024-04-15 16:00:01</changeDate>
      <link>https://.../661e4533afef0661e4533afef4/</link>
      <media:content url="https://.../661e4533afef0661e4533afef4.jpg"
type="image/jpg"/>
      <media:group>
        <media:content
url="https://.../JHRa44ade62d9_P2024020906799.pdf" type="application/pdf"/>
      </media:group>
    </item>
    <item>
      <guid>A240929_072804_pet</guid>
      <title>10% discount</title>
      <description>Everything for pets</description>
      <category>Pets</category>
      <link/>
      <pubDate>2024-04-16 00:00:00</pubDate>
      <endDate>2024-05-21 00:00:00</endDate>
      <changeDate>2024-04-15 16:00:01</changeDate>
      <media:content url="https://.../A240929_072804_pet.png"
type="image/png"/>
      <media:group>
        <media:content url="https://.../A240929_072804_pet_0.pdf"
type="application/pdf"/>
        <media:content url="https://.../A240929_072804_pet_1.pdf"
type="application/pdf"/>
        <media:content url="https://.../A240929_072804_pet_2.pdf"
type="application/pdf"/>
        <media:content url="https://.../A240929_072804_pet_3.png"
type="image/png"/>
        <media:content url="https://.../A240929_072804_pet_4.jpg"
type="image/jpg"/>
      </media:group>
    </item>
  </channel>
</rss>
```

JSON

```
{
  "channel": {
    "item": [
      {
        "guid": "661e4533afef0661e4533afef4",
        "title": "20% discount",
        "description": "Grocery from local distributors",
        "category": "",
        "pubDate": "2024-04-16 00:00:00",
        "endDate": "2024-05-21 00:00:00",
        "changeDate": "2024-04-15 16:00:01",
        "link": "https://.../661e4533afef0661e4533afef4/",
        "content": {
          "url": "https://.../661e4533afef0661e4533afef4.jpg",
          "type": "image/jpg"
        },
        "group": [
          {
            "url": "https://.../JHRa44ade62d9_P2024020906799.pdf",
            "type": "application/pdf"
          }
        ]
      },
      {
        "guid": "A240929_072804_pet",
        "title": "10% discount",
        "description": "Everything for pets",
        "category": "Pets",
        "link": "",
        "pubDate": "2024-04-16 00:00:00",
        "endDate": "2024-05-21 00:00:00",
        "changeDate": "2024-04-15 16:00:01",
        "content": {
          "url": "https://.../A240929_072804_pet.png",
          "type": "image/png"
        },
        "group": [
          {
            "url": "https://.../A240929_072804_pet_0.pdf",
            "type": "application/pdf"
          },
          {
            "url": "https://.../A240929_072804_pet_1.pdf",
            "type": "application/pdf"
          },
          {
            "url": "https://.../A240929_072804_pet_2.pdf",
            "type": "application/pdf"
          },
          {
            "url": "https://.../A240929_072804_pet_3.png",
            "type": "image/png"
          },
          {
            "url": "https://.../A240929_072804_pet_4.jpg",

```

```
        "type": "image/jpg"
      }
    ]
  }
}
```

Properties

- `channel.item.guid`
 - unique id of channel item
 - **newer change**
 - usually is database record id
- `channel.item.title`
 - Title of channel item
 - **can NOT be empty**
- `channel.item.description`
 - Description of channel item
 - can be empty
- `channel.item.category`
 - If channel has multiple categories, here is name of item category
 - can be empty
- `channel.item.link`
 - address pointing to webpage
 - preview is QR-CODE to scan by mobile
 - can be empty
- `channel.item.pubDate`
 - date-time when was item created
 - if is in the future, item will not show until that date
 - can be empty
- `channel.item.endDate`
 - Item will be removed until that date-time
 - can be empty
- `channel.item.changeDate`
 - last change of channel item
 - item will stay in cache (under guid), if change Date will change item will be fetched again
 - can be empty
- `channel.item.content`
 - image which representing channel item
 - **required attributes: url, type**
 - is not required but is **recommended**
 - **enabled type IMAGE**
- `channel.item.group`
 - media holder of multiple content-typess
 - can contain one or more media

- `channel.item.group.content`
 - media item
 - **required attributes: url, type**
 - **enabled types IMAGE, VIDEO, DOCUMENT**

Media types inside `media:group` / `group`

- IMAGE
 - image/webp
 - image/jpeg
 - image/jpg
 - image/png
- VIDEO
 - video/mp4
 - video/x-msvideo
 - video/webm
 - video/quicktime
 - video/x-m4v
 - video/mpeg
- DOCUMENT
 - application/pdf
 - application/rtf
 - application/msword
 - application/vnd.openxmlformats-officedocument.wordprocessingml.document
 - application/vnd.ms-excel
 - application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
 - application/vnd.ms-powerpoint
 - application/vnd.openxmlformats-officedocument.presentationml.presentation
 - application/vnd.oasis.opendocument.text
 - application/vnd.oasis.opendocument.presentation
 - application/vnd.oasis.opendocument.spreadsheet

Logic

Server will connect to defined RSS channels and fetch definition.

Store definition locally.

Download, convert, prepare new media.

Delete unused media, items.

If are any differences between old definition and new one, send new definition to devices where is channel attached.

Devices download prepared media from server.

Decision item is new / removed / updated

- if **guid** from new definition is not in old definition

- it is new item
- all media from new definition are downloaded, converted, prepared
- if **guid** from old definition is not in new definition
 - it is old item
 - all media from old definition are removed
- if **guid** is in old and new definition but **changeDate** is not equals
 - it is changed item
 - all media from old definition are removed
 - all media from new definition are downloaded, converted, prepared