

Link repository APIs

Single Digital Gateway

Contents

| | |
|---|----|
| Link repository APIs..... | 1 |
| 1. MS Export links RESTful Web Service..... | 3 |
| 1.1. Web service end points..... | 3 |
| 1.2. Request header parameters..... | 3 |
| 1.3. Request body parameters..... | 3 |
| 1.4. Reply message body parameters..... | 4 |
| 1.5. Error messages..... | 9 |
| 2. MS Import links RESTful Web Service..... | 9 |
| 2.1. Web service end points..... | 9 |
| 2.2. Request header parameters..... | 9 |
| 2.3. Request body parameters..... | 9 |
| 2.4. Reply message body parameters..... | 17 |
| 2.5. Error messages..... | 17 |

1. MS Export links RESTful Web Service

The RESTful service must be called using the HTTP POST method, and the request body must contain the translation request as JSON format. The authentication process of the request is handled in the header of the request based on the API key for each Member State provided in the SDG system.

1.1. Web service end points

| Environment | URL |
|-------------|---|
| Acceptance | https://webgate.acceptance.ec.europa.eu/youreurope/sdg/public/dtx/getlinksdataset |
| Production | https://webgate.ec.europa.eu/youreurope/sdg/public/dtx/getlinksdataset |

1.2. Request header parameters

| Parameter | Type | Mandatory? | Details |
|------------|--------|------------|--|
| x-api-key | string | Yes | The value of the parameter is shared on the API Key module of the SDG application for each member state. |
| x-api-user | string | Yes | This needs to be a valid user from the country with the x-api-key used. |

1.3. Request body parameters

| Parameter | Type | Mandatory? | Details |
|-----------|--------|------------|---|
| url | string | Yes | The “URL” will be used to match existing URLs in the repository, like ‘%url_string%’. If the field is empty the web service will return the whole dataset |

1.3.1. Request body example

```
{
  "url": "string"
}
```

1.4. Reply message body parameters

| Parameter | Type | Details |
|---------------|--------|--|
| url | string | The actual URL of the page or resource that the link is referring to. |
| createdBy | string | The user that originally created the item |
| owner | string | The user that owns that particular item |
| urlType | string | The type of the notified URL Possible values: <ul style="list-style-type: none"> • Web page • Web folder |
| type | string | The type of the link, which could be: <ul style="list-style-type: none"> • Information • Procedure |
| procedureName | string | The name of the procedure the link belongs to. Possible options: <ul style="list-style-type: none"> • the available procedures from the specific Member State (already notified in the Repository of Procedures) <i>*Needed only for Web page URL type tagged as 'Procedure' or 'Information/Procedure'.</i> |
| procedureType | string | Procedure types are defined according to the SDGR annexes, and more and more are mandated to become online. Possible values: <ul style="list-style-type: none"> • online (Processes that are conducted or completed over the internet, typically through a web-based platform) • offline (Processes that occur at an official desk and involve manual, non-digital steps - requires the person to go to a public administration desk) <i>*Needed only for Web page URL type tagged as 'Procedure' or 'Information/Procedure'.</i> |

| | | |
|---|--------|---|
| procedureAvailability | string | The availability of procedures signifies the extent of their accessibility, whether at the European level or within a specific national context. Possible values: <ul style="list-style-type: none"> • cross-border • national <i>*Needed only for Web page URL type tagged as 'Procedure' or 'Information/Procedure'.</i> |
| creationDate | date | The date when the item was created. |
| lastUpdateDate | date | The date when the item was last updated |
| country | string | The country to which the item belongs to. |
| title | string | The title of the link |
| description | string | The description that will be saved for that specific link |
| status | string | The current status of the link. |
| metadata | array | The list of metadata attached to the notified URL. |
| metadata[].url | string | the URL of the metadata entry |
| metadata[].languageCode | string | The code of the language in which the metadata entry is available |
| metadata[].classificationInformation[].category | string | The lowest level categories (the codes containing the letter of the category and the number of the area) described in the ANNEX 1 or ANNEX 2 |

| Parameter | Type | Details |
|-----------------------------|--------|---|
| metadata[].nationalLocation | string | NUTS or LAU location ID for which the content on the web page is valid. |
| metadata[].type | string | The type of the metadata, which could be : <ul style="list-style-type: none"> • Information • Procedure |
| metadata[].title | string | The title of the metadata entry |
| metadata[].description | string | The description of the metadata entry |
| metadata[].notificationType | string | It specifies the way in which the item has been registered in the repository of links. |
| metadata[].owner | string | The user that originally created the metadata entry |
| metadata[].createdBy | string | The user that owns that particular metadata entry |
| metadata[].creationDate | date | The date when the item was created |
| metadata[].lastUpdateDate | date | The date when the item was last updated |

1.4.1. Reply body example

```
{
  "data": [
    {
      "url": "https://www.agenciatributaria.gob.es/AEAT.sede/",
      "createdBy": "National Coordinator",
      "owner": "National Coordinator",
      "urlType": "Web folder",
      "type": "Procedure",
      "creationDate": "01/12/2020 10:26",
      "lastUpdateDate": "14/12/2020 08:39",
      "country": "Spain",
      "title": "Procedimientos de la Agencia Estatal de Administración Tributaria",
      "description": "Procedimientos de la Agencia Estatal de Administración Tributaria",
      "status": "PUBLISHED",
    }
  ]
}
```

```

    "metadata": [
      {
        "url": "https://www.agenciatributaria.gob.es/AEAT.sede/en_gb/procedim
ientos/GZ17.shtml",
        "languageCode": "en",
        "classificationInformation": [
          {
            "category": "C4"
          }
        ],
        "nationalLocation": [],
        "type": "Procedure",
        "procedureName": "Requesting proof of residence",
        "procedureType": "offline",
        "procedureAvailability": "cross-border",
        "title": "Form 05. Prior recognition of certain cases of
inapplicability, exemption or reduction of the car registration tax. - Description -
Electronic Office - Tax Agency",
        "description": null,
        "notificationType": "CRAWL",
        "owner": null,
        "createdBy": "root",
        "creationDate": "02/09/2021 05:47",
        "lastUpdateDate": "02/09/2021 05:47"
      },
      {
        "url": "https://www.agenciatributaria.gob.es/AEAT.sede/en_gb/procedim
ientos/IZ05.shtml",
        "languageCode": "en",
        "classificationInformation": [
          {
            "category": "B4"
          }
        ],
        "nationalLocation": [],
        "type": "Procedure",
        "procedureName": "Requesting a birth certificate",
        "procedureType": "offline",
        "procedureAvailability": "national",
        "title": "Motion for reversal of Audit settlements. - Description -
Electronic Office - Tax Agency",
        "description": null,
        "notificationType": "CRAWL",
        "owner": null,
        "createdBy": "root",
        "creationDate": "02/09/2021 05:47",
        "lastUpdateDate": "02/09/2021 05:47"
      }
    ]
  
```

```
    }
  ]
},
{
  "url": "https://www.agenciatributaria.gob.es/AEAT.sede/ca_es/procedimientos/"
,
  "createdBy": "n005cu7z",
  "owner": "n005cu7z",
  "urlType": "Web folder",
  "type": "Procedure",
  "creationDate": "04/12/2020 11:09",
  "lastUpdateDate": "14/12/2020 08:41",
  "country": "Spain",
  "title": "Procediments de l'Agència Estatal d'Administració Tributària",
  "description": "Procediments de l'Agència Estatal d'Administració
Tributària",
  "status": "PUBLISHED",
  "metadata": []
}
]
```


1.5. Error messages

| Error code | Error message | Details |
|------------|-------------------------------------|-------------------------------------|
| 400 | Please provide a valid secure token | The x-api-key provided is not valid |
| 400 | must not be null | "url" not found in payload |

2. MS Import links RESTful Web Service

The RESTful service must be called using the HTTP POST method, and the request body must contain the translation request as JSON format. The authentication process of the request is handled in the header of the request based on the API key for each Member State provided in the SDG system.

2.1. Web service end points

| Environment | URL |
|-------------|---|
| Acceptance | https://webgate.acceptance.ec.europa.eu/youreurope/sdg/public/dtx/import |
| Production | https://webgate.ec.europa.eu/youreurope/sdg/public/dtx/import |

2.2. Request header parameters

| Parameter | Type | Mandatory? | Details |
|------------|--------|------------|--|
| x-api-key | string | Yes | The value of the parameter is shared on the API Key module of the SDG application for each member state. |
| x-api-user | string | Yes | This will set the owner of the links that will be imported through the web service. |

2.3. Request body parameters

| Parameter | Type | Mandatory? | Details |
|-------------|--------|------------|---|
| title | string | Yes | The title that will be saved for that specific link |
| url | string | Yes | The URL that will be saved for that specific link |
| description | string | No | The description that will be saved for that specific link |

| Parameter | Type | Mandatory? | Details |
|-------------------------------|--------|------------|--|
| SDGDashboardInfoSearchResults | string | No | Whether to use the title and description information provided in the form or opt for the HTML information retrieved through the crawler functionality. Possible values: <ul style="list-style-type: none"> • y • n |
| type | string | Yes | This will contain the type of content present in that link. Can have the value: <ul style="list-style-type: none"> • Information • Procedure <i>*Needed only for Web page URL type.</i> |
| procedureName | string | No | The name of the procedure the link belongs to. Possible options: <ul style="list-style-type: none"> • the available procedures from the specific MS (already notified in the Repository of Procedures) <i>*Needed only for Web page URL type tagged as 'Procedure' or 'Information/Procedure'.</i> |
| procedureType | string | No | Procedure types are defined according to the SDGR annexes, and more and more are mandated to become online. Possible values: <ul style="list-style-type: none"> • online (Processes that are conducted or completed over the internet, typically through a web-based platform) • offline (Processes that occur at an official desk and involve manual, non-digital steps - requires the person to go to a public administration desk) <i>*Needed only for Web page URL type tagged as 'Procedure' or 'Information/Procedure'.</i> |

| | | | |
|-----------------------|--------|-----|---|
| procedureAvailability | string | No | The availability of procedures signifies the extent of their accessibility, whether at the European level or within a specific national context. Possible values: <ul style="list-style-type: none"> • cross-border • national <i>*Needed only for Web page URL type tagged as 'Procedure' or 'Information/Procedure'.</i> |
| categories | array | Yes | The category codes will be taken from Annex I and II of the SDGR. Only lowest level categories are accepted (the codes containing the letter of the category and the number of the area) <i>*Needed only for Web page URL type.</i> |
| categories[].category | string | Yes | The category codes will be taken from Annex I and II of the SDGR. Only lowest level categories are accepted (the codes containing the letter of the category and the number of the area) <i>*Needed only for Web page URL type.</i> |
| language | string | Yes | Language of the web page. The value can only contain the ISO 639-1 Code of a language. <i>*Needed only for Web page URL type.</i> |
| urlType | string | Yes | The type of the notified URL Possible values: <ul style="list-style-type: none"> • Web page • Web folder |
| nationalCode | string | No | NUTS or LAU location ID for which the content on the web page is valid. <i>*Needed only for Web page URL type.</i> |
| parentURL | string | No | The URL of the parent of a notified web page |

| | | | |
|----------|--------|----|---|
| crawlUrl | string | No | Whether to crawl or not a web folder using the Normal or the Java Script Crawler. <i>*Available only for Web folder URL type</i> Possible values: <ul style="list-style-type: none">• Normal• JavaScript |
| sitemaps | array | No | Other web pages (URLs) the user would like to include when crawling this specific web folder. <i>*Available only for Web folder URL type</i> |

| Parameter | Type | Mandatory? | Details |
|------------------------------|--------|------------|---|
| excludedPaths | array | No | <p>Web folders that the user wants to exclude from the search results for the notified URLs.</p> <p><i>*Available only for Web folder URL type</i></p> <p><i>Example: if you have notified https://gov.eu and you don't want pages from the folder news to appear in the search results you can add here https://gov.eu/news/.</i></p> |
| excludedPaths[].excludedPath | string | No | All the sub paths that have been excluded from future crawling of the parent URL |
| ignoreParams | array | No | <p>In order to help the crawler, in case the metadata information has been inserted directly into your HTML pages, if the parameters added are found in certain URLs will alert the crawler to ignore those pages.</p> <p><i>*Available only for Web folder URL type</i></p> <p><i>Example: if the news pages contain a parameter e.g. (article) it can be added here as ignore parameter and every time a URL contains this parameter will be ignored by the crawler.</i></p> |
| ignoreParams[].ignoreParam | | | All the parameters that should be ignored by the crawler when searching for metadata links for the parent URL. |
| delete | char | Yes | <p>Marks the items that you want to be deleted from the links repository:</p> <ul style="list-style-type: none"> • n for No • y for Yes |

2.3.1. Request body example for Web Folder

```
{
  "linkData": [
    {
      "title": "WF Parent",
      "url": "https://gen.ws.rest.org",
      "description": "Description",
      "sdgDashboardInfoSearchResults": "y",
      "type": "",
      "categories": [],
      "language": "",
      "urlType": "web folder",
      "nationalCode": "",
      "parentUrl": "",
      "crawlUrl": "Normal",
      "sitemaps": [
        {
          "sitemap": "https://gen.ws.rest.org/path1"
        },
        {
          "sitemap": "https://gen.ws.rest.org/path2"
        }
      ],
      "excludedPaths": [
        {
          "excludedPath": "https://gen.ws.rest.org/path1"
        },
        {
          "excludedPath": "https://gen.ws.rest.org/path2"
        }
      ],
      "ignoreParams": [
        {
          "ignoreParam": "param1"
        },
        {
          "ignoreParam": "param2"
        }
      ],
      "delete": "n"
    },
    {
      "title": "Metadata Title0",
      "url": "https://gen.ws.rest.org/b1e952576ecf4b4f8a3fb4b0665a9150",
      "description": "Description0",
      "sdgDashboardInfoSearchResults": "n",
    }
  ]
}
```

```
    "type": "information;procedure",
    "categories": [
      {
        "category": "K5"
      },
      {
        "category": "B6"
      }
    ],
    "language": "mt",
    "urlType": "web page",
    "nationalCode": "MT",
    "parentUrl": "https://gen.ws.rest.org",
    "crawlUrl": "",
    "sitemaps": [],
    "excludedPaths": [],
    "ignoreParams": [],
    "delete": "n"
  }
]
}
```

2.3.2. Request body example for Web Page

```
{
  "linkData":
    [
      {
        "title": "Residence procedure",
        "url": "https://www.belgium.be/en/family/residence documents for belgium",
        "description": "Procedure for people to come to Belgium as foreigners",
        "type": "Procedure",
        "procedureName": "Requesting proof of residence",
        "procedureType": "offline",
        "procedureAvailability": "cross-border",
        "categories":
          [
            {
              "category": "D1"
            },
            {
              "category": "D2"
            },
            {
              "category": "D4"
            }
          ],
        "language": "en",
        "urlType": "Web page",
        "nationalCode": "national codes dataset in the wiki",
        "parentUrl": "https://www.belgium.be/",
        "excludedPaths":
          [
            {
              "excludedPath": "https://eu.com/path1"
            },
            {
              "excludedPath": "https://eu.com/path2"
            }
          ],
        "ignoreParams":
          [
            {
              "ignoreParam": "k1"
            },
            {
              "ignoreParam": "k2"
            }
          ],
      }
    ],
  ]
}
```



```

        "delete" : "n"
      }
    ]
  }

```

2.4. Reply message body parameters.

| Parameter | Type | Details |
|-----------|--------|--|
| status | string | If the request has been successfully processed the value of the parameter will be 200 |
| data | array | The returned value of the parameter will be an array with the links that were imported: [imported_Links_Array] |
| message | string | The returned message. Example: "Links migrated Successfully" |

2.4.1. Reply body message example

```

{
  "status": "200",
  "data": [],
  "message": "Links migrated Successfully"
}

```

2.5. Error messages

The below list displays all error messages and their description which the client could receive synchronously in case the request is invalid. Error messages are detailed describing exactly what is missing from the request.

| Parameter | Type | Mandatory? | Details |
|-------------|--------|------------|--|
| status | string | Yes | Status is used to notify that there is something wrong in the payload |
| errors | string | Yes | Description of the issue |
| errorFields | string | No | Details the location of the encountered issues (e.g. linkData[0] describes which n'th link in the payload has an error) |

2.5.1. Example of an error message

```
{
  "status": 400,
  "errors": [
    "Please provide a Title"
  ],
  "errorFields": [ "linkData[0].title"
]
}
```

| Error code | Error message | Details |
|------------|--|--|
| 400 | The author is not registered in the system. Please provided a registered user ! | The username provided is not currently registered in the system. |
| 400 | Please provide a valid secure token | The x-api-key parameter provided in the header for authentication is not valid. Is not the same as the one provided in API Key module per member state. |
| 400 | Please provide links to be imported | List of the links received in the payload is empty. |
| 400 | Please provide a Title | Title of the link is missing. |
| 400 | Please provide a Title having length smaller than [title_Max_Length] | Length of the title is greater than the maximum allowed length. |
| 400 | Please provide a valid URL | URL is invalid. |
| 400 | Please provide a Url having length smaller than [url_Max_Length] | Length of the URL is greater than the maximum allowed length. |
| 400 | Please provide a Description having length smaller than [description_Max_Length] | Length of the description is greater than the maximum allowed length. |
| 400 | [link_URL] defined as notified link is already present in the system as metadata | The provided link is already present in the system as a metadata link. |
| 400 | The author is not authorized to update this link | The provider user does not have the proper grants to update the link |
| 400 | Parent URL [link_Parent_URL] provided does not match with the child URL [link_URL] | The parent URL received does not correspond with the provided child URL, their URLs do not match. E.g. : Parent URL path is not a sub path of the child URL |
| 400 | Web Folder links cannot have parent Urls | Web folder links do not have any parents since they are the root links defined in the system. |

| Error code | Error message | Details |
|-------------------|--|---|
| 400 | The value for excludedPath is not valid. Please do not use {} for empty objects. | The value provided in the excluded path parameter is not valid since it doesn't corresponds with any path defined in the URL. In order to not define any exclusions it is recommended not to use {} for empty objects. |
| 400 | Please provide unique excluded paths | Values provided in the excluded paths have two or more duplicates. |
| 400 | Please provide excluded paths different than link's url | The provided excluded path is identical with the provided URL, providing an excluded path like this basically excludes the entire URL, hence saving the URL becomes pointless. |
| 400 | Please provide excluded paths as subPath for link's url | Values provided in the excluded paths should be a sub path of the URL. |
| 400 | The value for ignoreParams is not valid. Please do not use {} for empty objects. | The value provided in the ignore parameter is not valid since it doesn't corresponds with any parameter defined in the URL. In order to not define any exclusions it is recommended not to use {} for empty objects. |
| 400 | Please provide a valid link type for link : [link_URL] | Link type should be "Information" and/or "Procedure". |
| 400 | Please provide a category for the link : [link_URL] | Link category is mandatory and should be provided for any URL. |
| 400 | Invalid category public id : [link_Category] for link : [link_URL] | The category PID provided for the URL is not valid, is not among the accepted PIDs defined in ANNEX I and ANNEX II. |
| 400 | Please provide a valid language code for link : [link_URL] | Language code is not among the accepted system code languages. |
| 400 | Please provide a valid url type for link : [link_URL] | URL type should be "Web folder" or "Web page". |

| Error code | Error message | Details |
|-------------------|---|---|
| 400 | Please provide a valid delete flag for link : [link_URL] | Delete flag should be: <ul style="list-style-type: none">• n for No• y for Yes |
| 400 | Please provide valid location or regions codes for : [link_URL] | Locations or regions codes provided are not among the ones accepted by the system. |
| 400 | A web page must not have excluded paths or ignore parameters | Excluded paths and ignore parameters are available only for Web folders. |