Metricom.eu

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# 1. Intro

[Metricom](http://www.metricom.eu/) API provides RESTful services for fetching articles and related data from Metricom ("pull") and services that are used for direct article delivery to third party apps ("push"). Most services require authorization as described in the following chapter. All services should use JSON for data transfer.

For testing purposes, we recommend command line utility [curl](http://curl.haxx.se/) or [Postman](https://www.getpostman.com/).

# 2. Authorization

Metricom uses [OAuth 2.0 protocol](https://www.oauth.com/) for authorization. Full scope of OAuth 2 features are supported, but in this doc we'll describe just Resource Owner Password Credentials Grant (Direct Access Grants) flow.

## 2.1. Exchange username/password for access token

To obtain access token for accessing Metricom API, perform HTTP POST to the following URL:

<https://login.metricom.eu/auth/realms/metricom/protocol/openid-connect/token>

"Content-Type" header should be set to "application/x-www-form-urlencoded", and following parameters should be send in body:

grant\_type set to password

client\_id set to your assigned client ID

username e-mail of user you are trying to authorize

password user's password

If username and password were valid, response will HTTP 200 with [Auth token info](#_3cwbapvo4723) in body.

In case of any problem with supplied username and/or password, response will be HTTP 401 with [Auth error](#_uweng64h8iav) in body.

For more details, see [Password Grant](https://www.oauth.com/oauth2-servers/access-tokens/password-grant/).

## 2.2. Accessing Metricom API using access token

When you got valid access token, append it to every HTTP request to Metricom API in Authorization header:

Authorization: Bearer *<ACCESS TOKEN>*

## 2.3. Refreshing access token

Access tokens are valid for a very limited time (few minutes) and need to be "refreshed" when they expire. To refresh access token, perform HTTP POST to the following URL:

<https://login.metricom.eu/auth/realms/metricom/protocol/openid-connect/token>

"Content-Type" header should be set to "application/x-www-form-urlencoded", and following parameters should be send in body:

grant\_type set to refresh\_token

client\_id set to mole-api

refresh\_token refresh token that you obtained in first step

In response you'll get fresh [Auth token info](#_3cwbapvo4723).

## 2.4. Long-lived tokens (offline tokens)

If you need long lived access tokens (for example for background tasks on server) you can obtain "offline" refresh tokens that will remain valid for obtaining fresh access tokens much longer. To get such "offline" refresh tokens, add one more parameter during initial token request:

scope set to offline\_access

Note that although such refresh tokens will have long expiration dates, they still do expire.

## 2.5. Logout

To invalidate access token, perform HTTP POST to the following URL:

<https://login.metricom.eu/auth/realms/metricom/protocol/openid-connect/logout>

"Content-Type" header should be set to "application/x-www-form-urlencoded", and following parameters should be send in body:

client\_id set to your assigned client ID

refresh\_token refresh token received upon [login](#_mwuechd80jqt)

## 2.6. Auth realm info

To retrieve Metricom't auth realm info, perform HTTP GET to the following URL:

<https://login.metricom.eu/auth/realms/metricom>

Response will be Metricom's auth [realm info](#_fazjvetrcky8).

Since it doesn't require any authorization, this service may also be used to just check if auth server is up.

# 3. Error handling

In case of any error, all services return [Error entity](#_yatljek4ya9s). Although most errors are result of either invalid request from clients or server-side bugs, some are unavoidable as they result from user's input that can be validated only on server (e.g. EmailAlreadyRegistered or InvalidPassword). Since errors contain user-readable messages, it is our recommendation that default action upon error is to display provided message directly to the user. For services where unavoidable user-related errors are expected, such errors will be noted in service documentation so you can provide specific handling for those errors.

# 4. Selecting fields

Every service accepts one special query string parametar @fields which is used to select which attributes of return entities caller wants returned. If @fields parametar is omitted, only entity ID is returned.

For example:

<https://api.metricom.eu/rest/articles/2d97715a-5057-11eb-85a7-3d0c4a599fec>

{

"id": "2d97715a-5057-11eb-85a7-3d0c4a599fec"

}

To select which attributes to return, specify their names in @fields parametar separated by comma:

<https://api.metricom.eu/rest/articles/2d97715a-5057-11eb-85a7-3d0c4a599fec?@fields=url,displayTitle>

{

"id": "2d97715a-5057-11eb-85a7-3d0c4a599fec",

"url": "https://www.tportal.hr/funbox/clanak/francuski-umjetnik-ureduje-ulice-domisljatim-slikarstvom-20201213",

"displayTitle": "Francuski umjetnik uređuje ulice domišljatim slikarstvom",

"@fields": [ "url", "displayTitle" ]

}

Note that returned attributes are specified in special @fields attribute of returned entity. Also note that empty attributes will be omitted from JSON, but ther name will be still present in @fields attribute.

To select subattributes of some attribute, specify their names in curly brackets:

[https://api.metricom.eu/rest/articles/2d97715a-5057-11eb-85a7-3d0c4a599fec?@fields=url,displayTitle,source{url,title}](https://api.metricom.eu/rest/articles/2d97715a-5057-11eb-85a7-3d0c4a599fec?@fields=url,displayTitle,source%7Burl,title%7D)

{

"id": "2d97715a-5057-11eb-85a7-3d0c4a599fec",

"source": {

"id": "tportal.hr",

"title": "T-portal",

"url": "http://www.tportal.hr/",

"@fields": [ "title", "url" ]

},

"url": "https://www.tportal.hr/funbox/clanak/francuski-umjetnik-ureduje-ulice-domisljatim-slikarstvom-20201213",

"displayTitle": "Francuski umjetnik uređuje ulice domišljatim slikarstvom",

"@fields": [ "source", "url", "displayTitle" ]

}

# 5. Services

## 5.1. Sources list

**URL**: https://api.metricom.eu/rest/sources

**HTTP method:** GET

**Parameters:**

**locale** Filters only sources for given [language](#_h3shuvy2xoyd) (for more than one language, repeat this parameter once for each language). Optional parameter.

**group** Filters only sources from given [source group](#_zibnowycfr) (for more than one group, repeat this parameter once for each group). Optional parameter.

**@fields** Which source's attributes to retrieve. For possible values, see [Source](#_fi4cok3f9g32) object definition.

**Response:** List of active [sources](#_derf4jtpj74x).

**Permissions:** Access to all requested source groups (news, forum, facebook, twitter, ...). If group parameter is not specified, all sources from all allowed groups will be returned.

**Examples:**

<https://api.metricom.eu/rest/sources?@fields=group,title,locale>

<https://api.metricom.eu/rest/sources?locale=hr&@fields=group,title>

<https://api.metricom.eu/rest/sources?locale=bs&group=news&group=forum>

## 5.2. Source

**URL**: https://api.metricom.eu/rest/sources/{id}

**HTTP method:** GET

**Parameters:**

**id** Source ID. Mandatory parameter.

**@fields** Which source's attributes to retrieve. For possible values, see [Source](#_fi4cok3f9g32) object definition.

**Response:** [Source](#_fi4cok3f9g32) details.

**Permissions:** Access to source's group (news, forum, facebook, twitter, ...).

**Examples:**

<https://api.metricom.eu/rest/sources/glas-slavonije.hr?@fields=title,description>

## 5.3. Source logo

**URL**: https://api.metricom.eu/rest/sources/{id}/logo

**HTTP method:** GET

**Parameters:**

**id** Source ID. Mandatory parameter.

**width** Logo bounding width. Optional parameter.

**height** Logo bounding height. Optional parameter.

**Response:** Source logo in PNG format optionally resized to fit into bounding width and height (aspect ratio will be preserved).

**Examples:**

<https://api.metricom.eu/rest/sources/tportal.hr/logo>

<https://api.metricom.eu/rest/sources/tportal.hr/logo?width=80&height=80>

## 5.4. Source icon

**URL:** https://api.metricom.eu/rest/sources/{mark}/icon

**HTTP method:** GET

**Parameters:**

**mark** Source mark. Mandatory parameter.

**Response:** Source icon in PNG format (16x16 pixels always).

**Examples:**

<https://api.metricom.eu/rest/sources/tportal.hr/icon>

## 5.5. Source articles feed

**URL:** https://api.metricom.eu/rest/sources/{mark}/feed

**HTTP method:** GET

**Parameters:**

**mark** Source mark. Mandatory parameter.

**before** Filters only articles indexed before given [date](#_9p456jtrrxca). Optional parameter.

**count** Number of articles to return. Optional parameter, if omitted 10 articles will be returned.

**Response:** List of [articles](#_vhxuyzr5csgr). Articles are ordered in descending indexing dates. Use this service to fetch newest articles from given source. For paging, start without before parameter (or use current date) and on each subsequent request set it to indexed date of last article from previous page. Stop when you retrieve article that already exists in your database.

**Permissions:** Feed and access to source's group (Portals, Forums, Facebook, Twitter, ...).

**Examples:**

<https://api.metricom.eu/rest/sources/tportal.hr/feed>

## 5.6. Article

**URL:** https://api.metricom.eu/rest/articles/{id}

**HTTP method:** GET

**Parameters:**

**id** Metricom article ID. Mandatory parameter.

**Response:** [Article](#_q4v5f8ok9yos).

**Permissions:** Access to article's source group (Portals, Forums, Facebook, Twitter, ...).

**Examples:**

<https://api.metricom.eu/rest/articles/aba8f8ac-8339-11e3-b366-2b2d31891e61>

## 5.7. Article image

**URL:** https://api.metricom.eu/rest/articles/{id}/image

**HTTP method:** GET

**Parameters:**

**id** Metricom article ID. Mandatory parameter.

**width** Image bounding width. Optional parameter.

**height** Image bounding height. Optional parameter.

**Response:** Article main image optionally resized to fit into bounding width and height (aspect ratio will be preserved).

**Examples:**

<https://api.metricom.eu/rest/articles/aba8f8ac-8339-11e3-b366-2b2d31891e61/image>

<https://api.metricom.eu/rest/articles/aba8f8ac-8339-11e3-b366-2b2d31891e61/image?width=80&height=80>

## 5.8. Multiple articles

**URL:** https://api.metricom.eu/rest/articles/resolve

**HTTP method:** GET

**Parameters:**

**id** Metricom article ID (for more than one article, repeat this parameter once for each article ID).

**url** Metricom article URL (for more than one article, repeat this parameter once for each article URL).

**Response:** List of [articles](#_vhxuyzr5csgr).

**Permissions:** Access to article's source group (Portals, Forums, Facebook, Twitter, ...).

**Examples:**

<https://api.metricom.eu/rest/articles/resolve?url=http%3A%2F%2Fwww.tportal.hr%2Fbiznis%2Fpolitika-i-ekonomija%2F377666%2FZakon-je-lose-uredio-odredivanje-kamata-na-kredite.html&url=http%3A%2F%2Fwww.tportal.hr%2Fvijesti%2Fhrvatska%2F377652%2FTvrtka-bliska-Agrokoru-kupila-Sanaderovu-nekretninu.html>

## 5.9. Search

**URL:** https://api.metricom.eu/rest/articles/search

**HTTP method:** GET

**Parameters:**

**query** Query ([syntax](#_p67fxgdu80oj)).

**keyword\_must** Keyword that MUST appear in search results (for more than one keyword, repeat this parameter multiple times)

**keyword\_must\_not** Keyword that MUST NOT appear in search results (for more than one keyword, repeat this parameter multiple times)

**keyword\_should** Keyword that AT LEAST ONE must appear in search results (for more than one keyword, repeat this parameter multiple times)

**after** Filters only articles published after given [date](#_9p456jtrrxca). Optional parameter.

**before** Filters only articles published before given [date](#_9p456jtrrxca). Optional parameter.

**source** Filters only articles from given [sources](#_derf4jtpj74x) (for more than one source, repeat this parameter once for each source). Optional parameter.

**group** Filters only articles from given [source group](#_zibnowycfr). Optional parameter.

**locale** Filters only articles in given [language](#_h3shuvy2xoyd) (for more than one language, repeat this parameter once for each language). Optional parameter. Multilingual searches are inherently less precise than searches in one specific language. If specifying multiple languages, set as first language one that query itself is written in.

**order** Results sort order (Relevance or Date). Optional parameter, if omitted Relevance is assumed.

**count** Number of articles to return. Optional parameter, if omitted 10 articles will be returned. 100 is limit.

**offset** Offset from list start. Optional parameter, if omitted first count articles will be returned (equivalent to offset=0).

**Response:** List of [search hits](#_cezm78bhcink).

**Permissions:** Query and access to source group (Portals, Forums, Facebook, Twitter, ...).

**Errors to expect:** InvalidQueryExpression , QueryTimeout, QueryAborted

**Examples:**

<https://api.metricom.eu/rest/articles/search?query=otpadne+vode>

<https://api.metricom.eu/rest/articles/search?query=otpadne+vode&count=10&group=news&group=forum&after=2013-12-19T00:00:00.000%2b02%3A00&order=Date>

## 5.10. Author

**URL:** https://api.metricom.eu/rest/authors/{id}

**HTTP method:** GET

**Parameters:**

**id** Metricom author ID. Mandatory parameter.

**Response:** [Author](#_bs91f6lenp0o).

**Permissions:** Access to authors's source group (Portals, Forums, Facebook, Twitter, ...).

**Examples:**

<https://api.metricom.eu/rest/authors/021f49fb-c059-11e5-a90d-64315096cc59>

## 5.11. Influencers list

**URL:** https://api.metricom.eu/rest/authors/influencers

**HTTP method:** GET

**Parameters:**

**locale** Filters only influencers relevant to given [language](#_h3shuvy2xoyd) (for more than one language, repeat this parameter once for each language). Optional parameter.

**source** Filters only influencers from given [sources](#_derf4jtpj74x) (for more than one source, repeat this parameter once for each source). Optional parameter.

**count** Number of influencers to return. Optional parameter, if omitted 10 influencers will be returned.

**Response:** List of [influencers](#_be038vmsx4vx).

**Permissions:** AuthorInfluencers and access to authors's source group (Portals, Forums, Facebook, Twitter, ...).

**Examples:**

<https://api.metricom.eu/rest/authors/influencers?source=facebook.com>

<https://api.metricom.eu/rest/authors/influencers?locale=hr>

<https://api.metricom.eu/rest/authors/influencers?locale=bs&source=facebook.com&source=twitter.com>

## 5.12. Folders list (owner)

**URL:** https://api.metricom.eu/rest/folders/owner

**HTTP method:** GET

**Response:** List of current user's [folders](#_cezm78bhcink).

**Examples:**

<https://api.metricom.eu/rest/folders/owner>

## 5.13. Folders list (sharee)

**URL:** https://api.metricom.eu/rest/folders/sharee

**HTTP method:** GET

**Response:** List of [folders](#_cezm78bhcink) shared with current user.

**Examples:**

<https://api.metricom.eu/rest/folders/sharee>

## 5.14. Folders list (collaborator)

**URL:** https://api.metricom.eu/rest/folders/collaborator

**HTTP method:** GET

**Response:** List of all [folders](#_cezm78bhcink) to which current user has access to (both own folders and folders shared with him/her).

**Examples:**

<https://api.metricom.eu/rest/folders/collaborator>

## 5.15. Folders shares list (owner)

**URL:** https://api.metricom.eu/rest/folders/shares/owner

**HTTP method:** GET

**Response:** List of all [folder's shares](#_yoedxrigd1r) created by current user.

**Examples:**

<https://api.metricom.eu/rest/folders/shares/owner>

## 5.16. Folders shares list (sharee)

**URL:** https://api.metricom.eu/rest/folders/shares/sharee

**HTTP method:** GET

**Response:** List of all [folder's shares](#_yoedxrigd1r) created by others and referencing current user.

**Examples:**

<https://api.metricom.eu/rest/folders/shares/sharee>

## 5.17. Folders metric

**URL:** https://api.metricom.eu/rest/folders/metric

**HTTP method:** GET

**Parameters:**

**after** Start day for which metrics should be calculated. Time part is ignored. Mandatory parameter.

**before** End day for which metrics should be calculated. Time part is ignored. **NOTE**: this day is not included in calculating date interval. Hence, it should be set to day after the last day that metrics are required. Mandatory parameter.

**group** Filters only metrics for given [source group](#_zibnowycfr) (for more than one group, repeat this parameter once for each group). Optional parameter.

**include\_shares** Should metrics include data for other user's folders that are shared with current user. Optional parameter (defaults to false).

**timeout** Timeout (in seconds) for calculating missing data. If given timeout elapses before all metrics are calculated, dirty flag in returned metrics will be set to true. Optional parameter (defaults to infinity).

**Response:** [Metric](#_s2qxw2ci0pkg) for requested date interval.

**Examples:**

<https://api.metricom.eu/rest/folders/metric?after=2019-01-01&before=2019-01-31&include_shares=true>

## 5.18. Folder

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}

**HTTP methods:**

GET Retrieves details for folder with given ID.

POST Creates new folder (omit {id} from URL). Send [folder](#_k9gtf39n882c) in HTTP body.

PUT Modifies folder. Send [folder](#_k9gtf39n882c) in HTTP body.

DELETE Deletes folder.

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter for GET, PUT and DELETE.

**Response:** [Folder](#_k9gtf39n882c).

**Permissions:** FolderManage for POST, PUT and DELETE.

**Errors to expect:** QuotaExceeded

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-64315096cc59>

## 5.19. Folder content list

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}/content

**HTTP methods:**

GET Retrieves folder's content.

PUT Adds/Modifies multiple articles in folder. Send array of [folder contents](#_kf4856ep7p0z) in HTTP body.

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter.

**indexed\_after** Filters only articles indexed after given [date](#_9p456jtrrxca). Optional parameter.

**indexed\_before** Filters only articles indexed before given [date](#_9p456jtrrxca). Optional parameter.

**published\_after** Filters only articles published after given [date](#_9p456jtrrxca). Optional parameter.

**published\_before** Filters only articles published before given [date](#_9p456jtrrxca). Optional parameter.

**source** Filters only articles from given [sources](#_derf4jtpj74x) (for more than one source, repeat this parameter once for each source). Optional parameter.

**group** Filters only articles from given [source groups](#_zibnowycfr) (for more than one source group, repeat this parameter once for each group). Optional parameter.

**author** Filters only articles from given authors (for more than one author, repeat this parameter once for each author). Optional parameter.

**impressions\_from** Filters only articles with impressions equal or higher to this value. Optional parameter.

**impressions\_to** Filters only articles with impressions less than this value. Optional parameter.

**engagements\_from** Filters only articles with engagements equal or higher to this value. Optional parameter.

**engagements\_to** Filters only articles with engagements less than this value. Optional parameter.

**stored\_after** Filters only articles stored into map after given [date](#_9p456jtrrxca). Optional parameter.

**stored\_before** Filters only articles stored into map before given [date](#_9p456jtrrxca). Optional parameter.

**sentiment** Filters only articles with given [sentiment](#_yvle16xo480g). Optional parameter.

**relevance\_from** Filters only articles with relevance equal or higher to this value (1-10). Optional parameter.

**relevance\_to** Filters only articles with relevance less than this value (1-10). Optional parameter.

**tag** Filters only articles tagged with this tag mark (for more than one tag, repeat this parameter once for each tag). Optional parameter.

**order** Select order in which articles are returned

IndexedDateDesc ordered by article indexing date, descending

IndexedDateAsc ordered by article publishing date, ascending

PublishedDateDesc ordered by article publishing date, descending

PublishedDateAsc ordered by article publishing date, ascending

ImpressionsDesc ordered by article impressions, descending

ImpressionsAsc ordered by article impressions, ascending

EngagementsDesc ordered by article engagement, descending

EngagementsAsc ordered by article engagement, ascending

Optional parameter, default is PublishedDateDesc.

**order\_by\_groups** In addition to order, sort articles by [source groups](#_zibnowycfr) (true/false). Optional parameter. Note: when this parameter is used, paging (page\_\* parameters) will not work.

**count** Number of articles to return. Optional parameter, if omitted 10 articles will be returned.

**page\_indexed\_date\_from** When paging, set this parameter to indexing date of the last article to fetch next count of them.

**page\_published\_date\_from** When paging, set this parameter (in addition to page\_indexed\_date\_from) to publishing date of the last article to fetch next count of them.

**page\_from** When paging on impressions or engagements, set this parameter (in addition to page\_indexed\_date\_from and page\_published\_date\_from) to impressions or engagements of the last article to fetch next count of them.

**page\_indexed\_date\_to** When paging, set this parameter to indexing date of the first article to fetch previous count of them.

**page\_published\_date\_to** When paging, set this parameter (in addition to page\_indexed\_date\_to) to publishing date of the first article to fetch previous count of them.

**page\_to** When paging on impressions or engagements, set this parameter (in addition to page\_indexed\_date\_to and page\_published\_date\_to) to impressions or engagements of the first article to fetch previous count of them.

**Response:** [Folder content](#_kf4856ep7p0z).

**Notes on paging:** When paging forward, use only \*\_from parameters. Which parameters you should use depends on selected order:

IndexedDate[Desc|Asc]: use only page\_indexed\_date\_from

PublishedDate[Desc|Asc]: use page\_indexed\_date\_from and page\_published\_date\_from

[Impressions|Engagements][Desc|Asc]: use all three parameters: page\_indexed\_date\_from, page\_published\_date\_from and page\_from

Same rules apply when paging backward, just use \*\_to parameters.

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-64315096cc59/content?count=3>

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-64315096cc59/content?count=10&group=news&group=forum&published_before=2013-12-19T00:00:00.000%2b02%3A00>

## 5.20. Folder content count

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}/content/count

**HTTP method:** GET

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter.

**indexed\_after** Filters only articles indexed after given [date](#_9p456jtrrxca). Optional parameter.

**indexed\_before** Filters only articles indexed before given [date](#_9p456jtrrxca). Optional parameter.

**published\_after** Filters only articles published after given [date](#_9p456jtrrxca). Optional parameter.

**published\_before** Filters only articles published before given [date](#_9p456jtrrxca). Optional parameter.

**source** Filters only articles from given [sources](#_derf4jtpj74x) (for more than one source, repeat this parameter once for each source). Optional parameter.

**group** Filters only articles from given [source groups](#_zibnowycfr) (for more than one source group, repeat this parameter once for each group). Optional parameter.

**author** Filters only articles from given authors (for more than one author, repeat this parameter once for each author). Optional parameter.

**impressions\_from** Filters only articles with impressions equal or higher to this value. Optional parameter.

**impressions\_to** Filters only articles with impressions less than this value. Optional parameter.

**engagements\_from** Filters only articles with engagements equal or higher to this value. Optional parameter.

**engagements\_to** Filters only articles with engagements less than this value. Optional parameter.

**stored\_after** Filters only articles stored into map after given [date](#_9p456jtrrxca). Optional parameter.

**stored\_before** Filters only articles stored into map before given [date](#_9p456jtrrxca). Optional parameter.

**relevance\_from** Filters only articles with relevance equals or higher to this value (1-5). Optional parameter.

**relevance\_to** Filters only articles with relevance less this value (1-5). Optional parameter.

**tag** Filters only articles tagged with this tag mark (for more than one tag, repeat this parameter once for each tag). Optional parameter.

**Response:** Number of articles in folder.

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-64315096cc59/content/count?group=news&group=forum&before=2013-12-19T00:00:00.000%2b02%3A00>

## 5.21. Folder content store

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}/content/store

**HTTP method:** POST

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter.

**query** Query ([syntax](#_p67fxgdu80oj)).

**keyword\_must** Keyword that MUST appear in search results (for more than one keyword, repeat this parameter multiple times)

**keyword\_must\_not** Keyword that MUST NOT appear in search results (for more than one keyword, repeat this parameter multiple times)

**keyword\_should** Keyword that AT LEAST ONE must appear in search results (for more than one keyword, repeat this parameter multiple times)

**after** Filters only articles published after given [date](#_9p456jtrrxca). Optional parameter.

**before** Filters only articles published before given [date](#_9p456jtrrxca). Optional parameter.

**source** Filters only articles from given [sources](#_derf4jtpj74x) (for more than one source, repeat this parameter once for each source). Optional parameter.

**group** Filters only articles from given [source group](#_zibnowycfr). Optional parameter.

**locale** Filters only articles in given [language](#_h3shuvy2xoyd) (for more than one language, repeat this parameter once for each language). Optional parameter. Multilingual searches are inherently less precise than searches in one specific language. If specifying multiple languages, set as first language one that query itself is written in.

**order** Results sort order (Relevance or Date). Optional parameter, if omitted Relevance is assumed.

**tag** Append given tag to articles stored in this folder

**skip\_if\_tag\_exists** Do not store articles that are already in a folder and are tagged with tag

**extract\_keywords** Extract keywords and HTML snippets for each added article.

**Response:** Number of articles stored.

**Permissions:** Query and access to source group (Portals, Forums, Facebook, Twitter, ...).

**Errors to expect:** InvalidQueryExpression , QueryTimeout, QueryAborted

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-643150/content/store?keyword_should=parlament&after=2019-05-01&tag=api>

## 5.22. Folder content purge

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}/content

**HTTP method:** DELETE

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter.

**Response:** Number of deleted articles.

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-643150/content>

## 5.23. Folder content

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}/content/{article\_id}

**HTTP methods:**

GET Retrieves details for article inside a folder.

DELETE Deletes article from folder.

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter.

**article\_id** Metricom article ID. Mandatory parameter.

**Response:** [Folder content](#_kf4856ep7p0z).

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-64315096cc59/content/c79c5df9-acb5-11e6-aedd-4485006d0fd8>

## 5.24. Folder tags

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}/tags

**HTTP method:** GET

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter.

**Response:** List of all tags that are used in this folder.

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-64315096cc59/tags>

## 5.25. Folder queries list

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}/queries

**HTTP method:** GET

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter.

**type** Filters only queries of given [type](#_jz53aishp9xb) (for more than one type, repeat this parameter once for each type). Optional parameter.

**group** Filters only queries for given [source group](#_zibnowycfr) (for more than one group, repeat this parameter once for each group). Optional parameter.

**enabled** Filter only enabled/disabled queries. Optional parameter.

**Response:** List of folder's [queries](#_vp8b57antqyf).

**Permissions:** FolderQuery.

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-64315096cc59/queries>

## 5.26. Folder queries count

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}/queries/count

**HTTP method:** GET

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter.

**type** Filters only queries of given [type](#_jz53aishp9xb) (for more than one type, repeat this parameter once for each type). Optional parameter.

**group** Filters only queries for given [source group](#_zibnowycfr) (for more than one group, repeat this parameter once for each group). Optional parameter.

**enabled** Filter only enabled/disabled queries. Optional parameter.

**Response:** Number of queries configured for folder.

**Permissions:** FolderQuery.

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-64315096cc59/queries/count>

## 5.27. Folder query

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}/queries/{query\_id}

**HTTP methods:**

GET Retrieves details for forder query with given ID.

POST Creates new folder query (omit {query\_id} from URL). Send [folder query](#_vd0pjtyr2n8w) in HTTP body.

PUT Modifies folder query. Send [folder query](#_vd0pjtyr2n8w) in HTTP body.

DELETE Deletes folder query.

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter.

**query\_id** Metricom folder query ID. Mandatory parameter for GET, PUT and DELETE.

**store** Number of days to automatically process and store articles covered by this query (supported only during POST).

**Response:** [Folder query](#_vd0pjtyr2n8w).

**Permissions:** FolderQuery.

**Errors to expect:** QuotaExceeded

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-64315096cc59/queries/91f8c974-4a52-11e9-9f17-507b9dc82ab8>

## 5.28. Folder shares list

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}/shares

**HTTP methods:**

GET Retrieves all shares for given folder.

POST Replaces shares for given folder. Send array of [folder shares](#_yoedxrigd1r) in HTTP body.

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter.

**Response:** Array of [folder shares](#_yoedxrigd1r).

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-64315096cc59/shares>

## 5.29. Folder share

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}/shares/{user\_id}

**HTTP methods:**

GET Retrieves information on how given folder is shared with given user.

PUT Adds/Modifies how given folder is shared with given user. Send [folder share](#_yoedxrigd1r) in HTTP body.

DELETE Stops sharing given folder with given user.

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter.

**user\_id** Metricom user ID. Mandatory parameter.

**Response:** [Folder share](#_yoedxrigd1r).

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-64315096cc59/shares/66a896f0-5af6-11e9-90e0-83ae3642d689>

## 5.30. Folder alarms list

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}/alarms

**HTTP methods:**

GET Retrieves all alarms that user has for given folder.

POST Replaces user's alarms for given folder. Send array of [folder alarms](#_vpra1ocx7s33) in HTTP body.

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter.

**type** Filters only alarms of given [type](#_v9to8a23t4u4) (for more than one type, repeat this parameter once for each type). Optional parameter.

**interval** Filters only alarms of given [interval](#_wsd6hp7w8hnn) (for more than one interval, repeat this parameter once for each type). Optional parameter.

**Response:** List of [folder alarms](#_vpra1ocx7s33).

**Permissions:** FolderAlarm.

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-64315096cc59/alarms>

## 5.31. Folder alarms count

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}/alarms/count

**HTTP methods:** GET

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter.

**type** Filters only alarms of given [type](#_v9to8a23t4u4) (for more than one type, repeat this parameter once for each type). Optional parameter.

**interval** Filters only alarms of given [interval](#_wsd6hp7w8hnn) (for more than one interval, repeat this parameter once for each type). Optional parameter.

**Response:** Number of alarms user has configured for folder.

**Permissions:** FolderAlarm.

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-64315096cc59/alarms/count>

## 5.32. Folder metric

**URL:** https://api.metricom.eu/rest/folders/{folder\_id}/metric

**HTTP method:** GET

**Parameters:**

**folder\_id** Metricom folder ID. Mandatory parameter.

**after** Start day for which metrics should be calculated. Time part is ignored. Mandatory parameter.

**before** End day for which metrics should be calculated. Time part is ignored. **NOTE**: this day is not included in calculating date interval. Hence, it should be set to day after the last day that metrics are required. Mandatory parameter.

**group** Filters only metrics for given [source group](#_zibnowycfr) (for more than one group, repeat this parameter once for each group). Optional parameter.

**timeout** Timeout (in seconds) for calculating missing data. If given timeout elapses before all metrics are calculated, dirty flag in returned metrics will be set to true. Optional parameter (defaults to infinity).

**Response:** Folder [metrics](#_s2qxw2ci0pkg) for requested date interval.

**Examples:**

<https://api.metricom.eu/rest/folders/8b909c44-c834-11e1-a770-64315096cc59/metric?after=2019-01-01&before=2019-01-31>

## 5.33. User

**URL:** https://api.metricom.eu/rest/users/{moniker}

**HTTP methods:**

GET Retrieves details for user

PUT Modifies user. Use ID as {moniker} and send user in HTTP body. Note: refresh access token for all updates to become visible.

**Parameters:**

**moniker** Either "me" (resolves to currently logged-in user) or any user's ID, e-mail, phone or username.

**@fields** Which user's attributes to retrieve. For possible values, see [User](#_q67k2fr5jika) object definition.

**Response:** [User](#_q67k2fr5jika).

**Examples:**

<https://api.metricom.eu/rest/users/me?@fields=name,email,permissions>

<https://api.metricom.eu/rest/users/fb95aaea-6029-11e9-a9cf-27e1413e21a2?@fields=name>

<https://api.metricom.eu/rest/users/john.doe%40foo.com?@fields=permissions>

<https://api.metricom.eu/rest/users/jdoe>

## 5.34. User password

**URL:** https://api.metricom.eu/rest/users/{moniker}/password

**HTTP methods:** PUT

**Parameters:**

**moniker** Either "me" (resolves to currently logged-in user) or any user's ID, e-mail, phone or username.

**old** User's current password

**new** New user password

**Response:** None.

**Errors to expect:** AccessDenied (old password invalid), InvalidPassword (new password doesn't follow Metricom's guidelines).

**Examples:**

<https://api.metricom.eu/rest/users/me/password?old=poorpassword&new=deevuuZ6>

## 5.35. User password forgot

**URL:** https://api.metricom.eu/rest/users/{email}/password/forgot

**HTTP methods:** PUT

**Parameters:**

**email** User's e-mail.

**Response:** None (triggers e-mail to given e-mail address with link for password reset).

**Note:** Doesn't require any authorization.

**Examples:**

<https://api.metricom.eu/rest/users/me/password?old=poorpassword&new=deevuuZ6>

## 5.36. User registration

**URL:** https://api.metricom.eu/rest/users/register

**HTTP methods:**

POST Registers new user. Send [user](#_q67k2fr5jika) in HTTP body.

**Parameters:**

**password** User's password.

**@fields** Which attributes of user to retrieve. For possible values, see [User](#_q67k2fr5jika) object definition.

**Response:** Registered [user](#_q67k2fr5jika).

**Note:** Doesn't require any authorization.

**Errors to expect:** EmailAlreadyRegistered, PhoneAlreadyRegistered, InvalidPassword.

**Examples:**

<https://api.metricom.eu/rest/users/register?password=Cei2Engo>

## 5.37. User resend validation email

**URL:** https://api.metricom.eu/rest/users/{moniker}/email/verify

**HTTP methods:** PUT

**Parameters:**

**moniker** Either "me" (resolves to currently logged-in user) or any user's ID, e-mail, phone or username.

**Response:** None (triggers e-mail to given e-mail address with link for email validation).

**Errors to expect:** EmailAlreadyVerified.

**Examples:**

<https://api.metricom.eu/rest/users/me/email/verify>

## 5.38. Register user notification token

**URL:** https://api.metricom.eu/rest/users/{moniker}/notifications/token

**HTTP method:** PUT

**Parameters:**

**moniker** Either "me" (resolves to currently logged-in user) or any user's ID, e-mail, phone or username.

**token** Notification token

**Response:** None.

**Examples:**

<https://api.metricom.eu/rest/users/me/notifications/token?token=YOUR_REGISTRATION_TOKEN>

## 5.39. Unregister notification token

**URL:** https://api.metricom.eu/rest/users/notifications/token

**HTTP method:** DELETE

**Parameters:**

**token** Notification token

**Response:** None.

**Note:** Doesn't require any authorization.

**Examples:**

<https://api.metricom.eu/rest/users/notifications/token?token=REGISTRATION_TOKEN>

## 5.40. Contacts list

**URL:** https://api.metricom.eu/rest/contacts

**HTTP method:** GET

**Parameters:**

**type** Filters only contacts of given [types](#_3e78rjf4v8xq) (for more than one type, repeat this parameter once for each type). Optional parameter.

**locale** Filters only articles in given [language](#_h3shuvy2xoyd) (for more than one language, repeat this parameter once for each language). Optional parameter.

**@field** Which attributes of user to retrieve. Repeat this parametar once for each attribute you require. For possible values, see [User](#_q67k2fr5jika) object definition.

**Response:** List of [contacts](#_yfljdt5o8v9x).

**Examples:**

<https://api.metricom.eu/rest/contacts?locale=hr&@field=value>

## 5.41. Inquiry

**URL:** https://api.metricom.eu/rest/inquiry

**HTTP method:** POST

**Parameters:**

**action** For which action is user making an inquiry. Currently free-form text, but at some point we may formalize available actions.

**message** User's message. Optional parameter.

**article** Metricom article ID, if inquiry is related to any specific article. Optional parameter.

**Response:** None (triggers e-mail to address configured as contact for user's language).

**Examples:**

<https://api.metricom.eu/rest/inquiry?action=Article%20order&article=7c5b64fd-cb70-11ea-be9d-0f9a139c7853>

## 5.42. Status

**URL**: https://api.metricom.eu/rest/status

**HTTP method:** GET

**Response:** Metricom [status](#_4sm9mqpaf5rt) report.

**Note:** Since it doesn't require any authorization, this service may also be used to just check if Metricom is up.

**Examples:**

https://api.metricom.eu/rest/status

# 6. Push service

Metricom supports article delivery directly to external web services. Articles are sent as soon as they are indexed (real-time delivery). In case of unsuccessful delivery, retries will be performed every 15 minutes until either article was successfully delivered or 24 hours have passed. In rare cases (network issues, slow article processing on external service etc.), some articles may be delivered more than once. Such repeated deliveries may be detected by already present article ID and should be ignored.

If you choose so, Metricom can deliver every single article it encounters. However, since that results in very high load (over a million articles daily), you can choose to receive only certain articles of interest. Several methods for article filtering are currently supported:

* by [language](#_h3shuvy2xoyd)
* by [source group](#_zibnowycfr)
* by folder

If filtering by language or source group, you still get every article for chosen language and source group (entity delivered is [article](#_q4v5f8ok9yos)). Filtering by folders is a little bit different, but way more powerful: you create folders and configure their queries in Metricom (via web interface), ask to be notified for changes in their content, and then receive only notifications when certain articles are places in those folders. In this case, entity delivered will not be article, but whole [folder content node](#_kf4856ep7p0z).

Entities (articles and folder content nodes) are delivered via:

* HTTP POST when article is first time created in Metricom (if you are receiving articles) or when it is placed in certain map (if you are receiving folder content). Article or folder content nodes will be placed in request body in JSON format. Additionally, two query string parameters will be set with just article and folder IDs (article\_id and folder\_id) and two headers with same values (X-Metricom-Article-ID and X-Metricom-Folder-ID).
* HTTP PUT when article or it's attributes in folder are updated. Again updated article/folder content entity will be sent in request body with query string parameters and headers set just like during HTTP POST.
* HTTP DELETE when article is removed from folder (you won't receive this notification if you are receiving only articles). In this case, there won't be any request body, just query string parameters and header values like in HTTP POST.

# 7. Parameter formats

All parameters must be [URL-encoded](https://en.wikipedia.org/wiki/Percent-encoding).

## 7.1. Date

Dates are represented in [ISO 8601](http://en.wikipedia.org/wiki/ISO_8601) format:

yyyy-MM-dd'T'HH:mm:ss.SSSXXX

e.g.

2013-12-19T23:59:00.000+02:00

and respectively, in URL-encoded form:

2013-12-19T23:59:00.000%2B02%3A00

## 7.2. Source group

All sources are grouped into following groups:

**news** classic news portals (jutarnji.hr, vecernji.hr, index.hr, ...)

**forum** forums and comments on news portals

**usenet** Usenet network

**facebook** Facebook

**twitter** Twitter

**youtube** YouTube

**instagram** Instagram

**pinterest** Pinterest

**press** newspapers

**tv** TV networks

**radio** radio networks

## 7.3. Locale

Locale that Metricom currently supports are:

**hr** Croatian

**bs** Bosnian (whole BiH region)

**sr** Serbian

**sl** Slovenian

**me** Montenegrin

**mk** Macedonian

**cs** Czech

**sk** Slovak

**pl** Polish

**sq** Albanian

## 7.4. Sentiment

Articles may (but may not) have assign any of the following sentiments:

**Positive** positive sentiment

**Negative** negative sentiment

**Neutral** neutral sentiment

## 7.5. Category

Articles from news portals have one of the following categories (defined by related categories on portals where they were published):

**Croatia** News from Croatia

**BiH** News from Bosnia and Herzegovina

**Serbia** News from Serbia

**World** News from any other country not mentioned above

**Business** Business news

**Politics** Politics

**Sport** Sport

**BadNews** Disasters, crime, obituaries, ... ("crna kronika")

**Culture** All culture related news

**Entertainment** Entertainment

**Health** Health

**Lifestyle** Lifestyle

**Movies** News about movies (note that there is separate category for show business)

**Music** News about music (note that there is separate category for show business)

**SciTech** Science and technology

**Showbiz** Show business

**Travel** Travel

**Wheels** Cars, bikes, ...

**Opinion** Columns

## 7.6. Folder query type

Folder queries can be of following types:

**Simple** Keywords-based query (ALL OF, NONE OF, AT LEST ONE OF <keywords>)

**Advanced** Query with [custom search syntax](#_p67fxgdu80oj)

**Similarity** Query that finds articles similar to text given as query

## 7.7. Folder alarm type

Folder alarms can be of following types:

**Email** Alarms user via e-mail

**Mobile** Alarms user via registered mobile devices

## 7.8. Folder alarm interval

Folder alarms can have following intervals:

**Delta** Sent when number of articles in a folder suddenly increases

**Instant** Sent immediatelly when article is added to folder

**Daily** Sent daily for past day

**Weekly** Sent weekly for past week

**Monthly** Sent monthly for past month

## 7.9. Permission

Metricom assigns following permissions to users:

**Portals** Access to articles from web portals

**Forums** Access to articles from web forums

**Usenet** Access to articles from Usenet network

**Facebook** Access to articles from Facebook

**Twitter** Access to articles from Twitter

**YouTube** Access to articles from YouTube

**Instagram** Access to articles from Instagram

**Pinterest** Access to articles from Pinterest

**Press** Access to articles from newspapers

**Tv** Access to articles from TV networks

**Radio** Access to articles from radio networks

**TrendsList** Can list trending articles

**Query** Can search archive

**AuthorInfluencers** Can list influencers

**AuthorSearch** Can search authors

**Feed** Can access articles feed from sources and authors

**FolderManage** Can create/edit folders

**FolderQuery** Can create/edit folder queries

**FolderAlarm** Can create/edit folder notifications

**ArticleDetails** Can access detailed info on articles

## 7.10. User state

Metricom users can be in one of the following states:

**PromoWaitingForEmailVerification** Just registered, email confirmation is still pending

**PromoEmailVerificationMissing** Timeouted waiting for email verification (suspended)

**Promo** Verified promo user

**PromoExpired** Promo period expired (suspended)

**Paying** Paying user

**Disabled** Disabled user, can't login (suspended)

## 7.11. Contact type

Users are provided via several types of contact via which they can contant support:

**Email** E-mail address

**Phone** Phone number

**Skype** Skype

## 7.12. Gender

Authors (and articles without authors) may be classified as following gender:

**Male** Male

**Female** Female

# 8. Entities

Metricom API generates and also accepts various entities in JSON format to describe sources, authors, articles and other logical entities.

Identity attributes (ones that uniquely identify each entity instance - IDs) are prefixed with **#** (note that there may be more than one, see [Folder content](#_kf4856ep7p0z) or [Folder share](#_yoedxrigd1r) for examples), optional attributes are displayed in grey color, while attributes that can be modified via PUT requests are underlined.

Some entities may be fetched/stored partially. Such entities contain one additional attribute named **@fields** which contains the names of all initialized attributes. Attribute names are identical to JSON keys with notable exception that identity attributes (prefixed with **#**) do not have their corresponding field (because they have to be initialized for every object without exceptions). When requesting such "field-aware" objects, it is required to specify every field that should be returned. Similarly, when modifying such objects, only attributes specified in object's **@fields** array will be updated.

Note: **@fields** may contain attributes that are not present in JSON. That means that such attributes have a value of **null**.

For examples see [Source](#_fi4cok3f9g32) entity and corresponding [Sources list](#_pf84viepv8do) and [Source](#_t895a03oy4dh) services.

## 8.1. Source

{

"id": "liderpress.hr",

"group": "news",

"url": "http://www.liderpress.hr",

"title": "Lider press vijesti",

"description": "Vijesti s naslovnice",

"locale": "hr",

"impressions": 1427,

"@fields": [ ... ]

}

**#id** Metricom source ID

**group** [source group](#_zibnowycfr)

**url** source URL address

**title** source title, as specified on front page

**description** source short description, as specified on front page

**locale** language that this source publishes in (for some sources, like international social networks, this is not relevant)

**impressions** empirically determined average daily impressions for articles published by this source

**@fields** List of initialized attributes

## 8.2. Author

{

"id": "1e2b8656-dfbf-11e5-8f23-64315096cc59",

"source": { [source](#_fi4cok3f9g32) },

"externalId": "1041388345875155",

"externalProperties": { */\* external properties \*/* },

"name": "Franjo Drobina",

"url": "https://www.facebook.com/app\_scoped\_user\_id/1041388345875155/",

"gender": "Male",

"note": "A very important user!",

"imageUrl": "https://graph.facebook.com/v2.2/1041388345875155/picture?type=large",

"locales": [ "hr", "si", "bs", "sr" ],

"tags": [ "advertising", "banking" ]

}

**#id** Metricom author ID

**source** [source](#_fi4cok3f9g32) (with all attributes) that author belongs to

**externalId** author's ID (alphanumerical) as defined on its source

**externalProperties** attributes specific to author's home network (Facebook, Twitter, ...); see sections 8.2.x for details; NOTE: specific attributes in this object can not be selected by field (they are selected in all-or-nothing fashion)

**name** author's full name

**url** URL to author's profile (on source)

**gender** author's gender (Male, Female)

**note** Note for this author inside Metricom

**imageUrl** URL to author's profile picture

**locales** [languages](#_h3shuvy2xoyd) that this author is using

**tags** custom tags that were assigned to this author by Metricom administrators

### 8.2.1. Author Facebook properties

{

"@type": "facebook.com",

"profileType": "page",

"about": "Službena Facebook stranica Škole košarke Cedevita",

"category": "Basketball Court",

"checkins": 10,

"description": "Škola košarke Cedevita postoji od 2007. godine i kao dio košarkaškog sustava KK Cedevite, razvila se u najkvalitetniji sustav košarkaškog obrazovanja u Hrvatskoj. S preko 700 polaznika u više od 24 škole ujedno je i najbrojnija škola košarke u državi.",

"isVerified": false,

"likes": 1262,

"location": "Zagreb, Croatia",

"talkingAboutCount": 39,

"website": "http://kkcedevita.hr/Mladi/%C5%A0kolako%C5%A1arke.aspx",

"wereHereCount": 10

}

**@type** always set to facebook.com

**profileType** type of Facebook profile: either user, page, group, event or application; note that combination of attributes that follow largely depends on type of profile (e.g. users will have set attributes like ageRange and significantOther, pages will have category, companyOverview and talkingAboutCount etc.

**about** information about the Page

**ageRange** unspecific age range that this person's age fits into

**category** Page's main category. e.g. Product/Service, Computers/Technology

**checkins** number of checkins at a place represented by a Page

**companyOverview** the company overview

**coverImageUrl** URL to Page's cover photo

**description** description of the Page

**email** person's primary email address listed on their profile

**firstName** person's first name

**generalInfo** general information provided by the Page

**hometown** person's hometown

**impressum** impressum for this page

**isVerified** showing whether this Page is verified or not

**languages** Facebook Pages representing the languages this person knows

**lastName** person's last name

**likes** number of users who like the Page (for Global Pages this is the count for all Pages across the brand)

**location** location of this place

**middleName** person's middle name

**significantOther** person's significant other

**talkingAboutCount** number of people talking about this Page

**website** URL of the Page's website

**wereHereCount** number of visits to this Page's location

### 8.2.2. Author Twitter properties

{

"@type": "twitter.com",

"screenName": "zagreb\_tourist",

"description": "When you know you are in the right place - #Zagreb 💕#ZagrebLovesYou #LoveZagreb #VisitZagreb",

"followersCount": 15563,

"favouritesCount": 4080,

"friendsCount": 7513,

"listedCount": 140,

"location": "Zagreb",

"statusesCount": 18784,

"verified": true

}

**@type** always set to twitter.com

**screenName** unique screen name, handle, or alias that this user identifies themselves with

**description** user-defined string describing their account

**followersCount** number of followers this account currently has

**favouritesCount** number of tweets this user has favorited in the account's lifetime

**friendsCount** number of users this account is following (AKA their "followings")

**lang** [BCP 47](http://tools.ietf.org/html/bcp47) code for the user's self-declared user interface language

**listedCount** number of public lists that this user is a member of

**location** user-defined location for this account's profile

**statusesCount** number of tweets (including retweets) issued by the user

**timeZone** string describing the Time Zone this user declares themselves within

**verified** when true, indicates that the user has a verified account (see [Verified Accounts](https://support.twitter.com/articles/119135-faqs-about-verified-accounts))

### 8.2.3. Author Instagram properties

{

"@type": "instagram.com",

"username": "wikohrvatska",

"bio": "#GameChanger sa i bez filtera! #instawiko",

"mediaCount": 167,

"followedByCount": 154,

"followsCount": 11

}

**@type** always set to instagram.com

**username** unique user's alias

**bio** user's biography

**website** official website

**mediaCount** number of posts

**followedByCount** number of followers

**followsCount** number of profiles followed by this user

### 8.2.4. Author YouTube properties

{

"@type": "youtube.com",

"publishedAt": "2014-11-06T10:39:08.000+01:00",

"description": "Official Tefal Hrvatska channel",

"subscriberCount": 195,

"hiddenSubscriberCount": false,

"videoCount": 68,

"viewCount": 1067071,

"commentCount": 0,

"country": "HR"

}

**@type** always set to youtube.com

**publishedAt** timestamp when YouTube channel was registered

**description** channel's description

**subscriberCount** number of subscribers that the channel has

**hiddenSubscriberCount** indicates whether the channel's subscriber count is publicly visible or not

**videoCount** number of videos uploaded to the channel

**viewCount** number of times the channel has been viewed

**commentCount** number of comments for the channel

**country** country with which the channel is associated

### 8.2.5. Author Pinterest properties

{

"@type": "pinterest.com",

"username": "holidays2europe",

"bio": "Exploring Europe to bring you the best tips and destination inspiration to help you plan your dream European vacation.",

"createdAt": "2012-04-21T11:24:03.000+02:00",

"counts": {

"pins": 21150,

"boards": 63,

"following": 407,

"followers": 14871

}

}

**@type** always set to pinterest.com

**username** user’s Pinterest username

**bio** text in the user’s “About you” section in their profile

**createdAt** date the user created their account

**counts** user’s stats, including how many Pins, follows, boards and likes they have

## 8.3. Influencer

{

"author": { [author](#_bs91f6lenp0o) },

"postsEngagements": 38562,

"postsImpressions": 42078,

"postsCount": 2455,

"postsCommentCount": 3782,

"connectedTo": 78,

"connectedBy": 112,

"keywords": [ "vagabundu", "dewesoft", "lasvegas" ],

"externalProperties": { */\* external properties \*/* }

}

**author** [Author](#_bs91f6lenp0o) this influencer references

**postsImpressions** Cummulative number of impressions of all posts from given author in Metricom's database.

**postsEngagements** Cummulative number of engagements of all posts from given author in Metricom's database.

**postsCount** Current number of posts from given author in Metricom's database.

**postsCommentCount** Cummulative number of comments to all posts from given author in Metricom's database.

**connectedTo** Number of profiles that this author follows.

**connectedBy** Number for profiles that are following this author.

**keywords** Keywords best describing author's posts.

**externalProperties** Source-dependent set of additional attributes; see sections 8.3.x for details; NOTE: specific attributes in this object can not be selected by field (they are selected in all-or-nothing fashion)

### 8.3.1. Influencer Facebook properties

**@type**  always set to facebook.com

**postsLikeCount** Cummulative number of likes

**postsShareCount** Cummulative number of shares

### 8.3.2. Influencer Twitter properties

**@type**  always set to twitter.com

**postsRetweetCount** Cummulative number of retweets

**postsFavoriteCount** Cummulative number of likes

### 8.3.3. Influencer Instagram properties

**@type**  always set to instagram.com

**postsLikeCount** Cummulative number of likes

### 8.3.4. Influencer YouTube properties

**@type**  always set to youtube.com

**postsViewCount** Cummulative number of views

**postsLikeCount** Cummulative number of likes

**postsDislikeCount** Cummulative number of dislikes

**postsFavoriteCount** Cummulative number of favorited videos

## 8.4. Article

{

"id": "73c3abdc-68d4-11e3-b874-64315096cc59",

"indexedAt": "2013-12-19T18:38:44.262.751+01:00",

"publishedAt": "2013-12-19T10:20:50.244+01:00",

"source": { [source](#_fi4cok3f9g32) },

"url": "http://graph.facebook.com/100000840503036\_617394014965276",

"locales": [ "hr" ],

"author": { [author](#_bs91f6lenp0o) },

"title": "PHOTO: Timeline Photos",

"displayTitle": "Comment on PHOTO: Timeline Photos",

"text": "Funny cat!",

"imageUrl": "http://photos-d.ak.fbcdn.net/hphotos-ak-prn1/1521591\_10151800794938038\_933749712\_s.jpg",

"externalId": "1041388345875155",

"externalProperties": { */\* external properties \*/* },

"keywords": [ "banana", "enzim", "protein" ],

"linkedUrl": "<http://www.facebook.com/photo.php?fbid=10151800794938038&amp;set=a.352185673037.150159.338085888037&amp;type=1>",

"impressions": 214,

"engagements": 14

}

**#id** Metricom article ID

**indexedAt** [date](#_9p456jtrrxca) when Metricom indexed article

**publishedAt** [date](#_9p456jtrrxca) when article was published at (according to source, beware of sources that fake this data)

**source** [source](#_fi4cok3f9g32) where article was published

**url** full article URL

**locales** [locales](#_h3shuvy2xoyd) that article is published in

**parentId** Metricom ID of this article's parent article (*top level parent*); only for comments

**directParentId** Metricom ID of this article's parent article (*first level - "direct" - parent*); only for comments

**author** article [author](#_bs91f6lenp0o)

**authorGender** detected article author's [gender](#_ijr0ddv5qqsy) (may be set even if author is unknown)

**title** article title

**displayTitle** article title with article status prepended where needed (like "Comment on ", "Retweet of " etc.)

**text** full article text, coupled with any additional footnotes, texts under photographs etc.

**imageUrl** full URL to article's main photo

**linkedUrl** full URL to any external entity mentioned in article (e.g. linked video on Facebook)

**externalId** article's ID (alphanumerical) as defined on its source

**externalType** type of article (reply, retweet, ...); specific to source

**parentExternalId** article's ID (alphanumerical) of this article's parent article (*top level parent*) as defined on its source; only for comments

**directParentExternalId** article's ID (alphanumerical) of this article's parent article (*first level - "direct" - parent*); only for comments

**parentUrl** URL of this article's parent article (*top level parent*); only for comments

**commentCount** total number of comments for this article (and their comments)

**facebookLikeCount** Facebook like count (only for non-Facebook articles)

**facebookShareCount** Facebook share count (only for non-Facebook articles)

**facebookCommentCount** Facebook comment count (only for non-Facebook articles)

**twitterTweetCount** Twitter tweet count (only for non-Twitter articles)

**pinterestPinCount** Pinterest pin count (only for non-Pinterest articles)

**category** [category](#_jasdvmm4p9to)

**show** Show (for tv/radio)

**lastSync** Last time stats were synced from article's source

**facebookLastSync** Last time stats were synced from Facebook

**twitterLastSync** Last time stats were synced from Twitter

**pinterestLastSync** Last time stats were synced from Pinterest

**externalProperties** attributes specific to article's home network (Facebook, Twitter, ...); see sections 8.4.x for details; NOTE: specific attributes in this object can not be selected by field (they are selected in all-or-nothing fashion)

**keywords** calculated article keywords

**impressions** calculated article impressions

**engagements** calculated article engagements (comments + "likes" + shares + retweets + ...)

**totalEngagements** calculated article engagements as percent of maximum from article's author

**cpm** calculated CPM (cost per mille in EUR)

**cpe** calculated CPE (cost per engagement in EUR)

**sentiment** calculated article [sentiment](#_rzum091jkle5)

### 8.4.1. Article Facebook properties

**@type** always set to facebook.com

**likeCount** Facebook like count

**loveCount** Facebook love count

**wowCount** Facebook wow count

**haHaCount** Facebook haha count

**sadCount** Facebook sad count

**angryCount** Facebook angry count

**thankfulCount** Facebook thankful count

**prideCount** Facebook pride count

**careCount** Facebook care count

**shareCount** Facebook share count

### 8.4.2. Article Twitter properties

**@type** always set to twitter.com

**retweetCount** Twitter retweet count

**favoriteCount** Twitter favorite count

**inReplyToScreenName** If the represented Tweet is a reply, this field will contain the screen name of the original Tweet’s author

**inReplyToStatusId** If the represented Tweet is a reply, this field will contain the string representation of the original Tweet’s ID

**inReplyToUserId** If the represented Tweet is a reply, this field will contain the original Tweet’s author ID

**quotedStatusId** If the represented Tweet is a quote, this field will contain Tweet ID of the quoted Tweet

**retweetedStatusId** If the represented Tweet is a retweet, this field will contain Tweet ID of the original Tweet

### 8.4.3. Article Instagram properties

**@type** always set to instagram.com

**viewCount** Instagram view count

**likeCount** Instagram like count

### 8.4.4. Article YouTube properties

**@type** always set to youtube.com

**viewCount** YouTube view count

**likeCount** YouTube like ("thumbs up") count

**dislikeCount** YouTube dislike ("thumbs down") count

**favoriteCount** YouTube favorite count

**embedHtml** HTML for embedding player with link to this video

### 8.4.5. Article Pinterest properties

**@type** always set to pinterest.com

**saveCount** Pinterest save count

**board** Pinterest board there this pin was found

### 8.4.6. Article Reddit properties

**@type** always set to reddit.com

**upCount** Reddit ups

**downCount** Reddit downs

## 8.5. Search hit

{

"article": { [article](#_q4v5f8ok9yos) },

"explanation": "(otpadni otpasti) (vod voda voditi)",

"snippet": "...Gra&amp;#273;anima uzeli 3,6 milijardi kuna za pro&amp;#269;i&amp;#353;&amp;#263;avanje &lt;B>otpadnih&lt;/B> &lt;B>voda&lt;/B>&lt;br/>Dr&amp;#382;avna revizija tvrdi da &amp;#263;emo do 2028. godine platiti tvrtki Zagreba&amp;#269;ke &lt;B>otpadne&lt;/B> &lt;B>vode&lt;/B> 728 milijuna eura vi&amp;#353;e nego &amp;#353;to &amp;#263;e ona ulo&amp;#382;iti&lt;br/>Tu&amp;#382;ba udruge Infrastruktura Prema ra&amp;#269;unici koje je sastavila Udruga Infrastruktura na &amp;#269;ijem je &amp;#269;elu Vlado Kolak, a na temelju podataka Ministarstva financija, od 2004. do 2013. godine ukupni tro&amp;#353;kovi poslovanja tvrtke &amp;quot;Zagreba&amp;#269;ke &lt;B>otpadne&lt;/B> &lt;B>vode&lt;/B> &amp;#8211; upravljanje i pogon&amp;quot; iznose 323,5 milijuna kuna...&lt;br/>... njih, Zagreba&amp;#269;ke &lt;B>otpadne&lt;/B> &lt;B>vode&lt;/B>, ostvarila je prihod, a rije&amp;#269; je o novcu koji je fakturirala od Grada Zagreba...&lt;br/>... koju je podnijela Udruga protiv Grada Zagreba i Zagreba&amp;#269;kih &lt;B>otpadnih&lt;/B> &lt;B>voda&lt;/B> (ZOV), ali uz koju su predo&amp;#269;ene...&lt;br/>... &lt;B>otpadnim&lt;/B> &lt;B>vodama&lt;/B> na 28 godina. &amp;#268;etiri godine poslije ZOV posao upravljanja i odr&amp;#382;avanja centralnog ure&amp;#273;aja za pro&amp;#269;i&amp;#353;&amp;#263;avanje &lt;B>otpadnih&lt;/B> &lt;B>voda&lt;/B> Zagreba prebacuje na tvrtku ZOV &amp;#8211; upravljanje i pogon...&lt;br/>... da nepravilnosti ima. U Zagreba&amp;#269;kim &lt;B>otpadnim&lt;/B> &lt;B>vodama&lt;/B> rekli su nam da ne &amp;#382;ele ni&amp;#353;ta komentirati jer tu&amp;#382;bu..."

}

**article** [article](#_q4v5f8ok9yos)

**explanation** terms from query found in article

**snippet** HTML-formatted snippet with relevant parts from article marked in **bold**

## 8.6. Folder

{

"id": "8b909c44-c834-11e1-a770-64315096cc59",

"name": "Folder #1",

"owner": { [user](#_q67k2fr5jika) }

}

**#id** Metricom folder ID

**name** Folder name

**owner** Metricom user that this folder belongs to

## 8.7. Folder content

{

"folder": { [folder](#_k9gtf39n882c) },

"article": { [article](#_vhxuyzr5csgr) },

"date": "2018-07-03T11:27:13.736+02:00",

"relevance": 4,

"sentiment": "Positive",

"note": "Upozorenje: tekst je izmjenjen nakon originalne objave",

"tags": [ { [tag](#_ue916limrnwr) }, { [tag](#_ue916limrnwr) }, { [tag](#_ue916limrnwr) } /\* ... \*/ ]

}

**#folder** [folder](#_cezm78bhcink)

**#article** [article](#_q4v5f8ok9yos)

**date** when article was placed in this map

**sentiment** article [sentiment](#_yvle16xo480g) in this map (may differ from overall article sentiment)

**relevance** article relevance (1-9) in this map

**note** article note in this map

**tags** article tags in this map

## 8.8. Folder content tag

{

"mark": "Vlast je slast",

"description": "sabor, vlada",

"snippet": "...Samo jedan srednjoeuropski grad podsje&#263;a na Zagreb, kojim Bandi&#263; <B>vlada</B> poput Tita | Dnevno.hr<br/>Boris Scitar/Vecernji list/PIXSELL Utorak, 29. sije&#269;anj 2019. u 14:20 Usred srednje Europe, samo sto kilometara udaljeniji od Splita ili Beograda, nalazi se srednjoeuropski grad &#8211; istinski blizanac Zagreba. No, iako su jednojaj&#269;ani &#8220;dvoj&#269;eki&#8221;, ti se gradovi umnogome razlikuju, kao Danny de Vito i Arnold Schwarzenegger u filmu &#8221;Twins&#8221;. Kreirani iz istog genetskog koda, razvijali su se zasebno i sad sasvim druk&#269;ije performiraju &#8211; te&#353;ko bi se dva podjednaka grada mogli vi&#353;e razlikovati po svojoj funkcionalnosti. Brno je malo dosadan srednjoeuropski raj, a Zagreb prili&#269;no ugodan balkanski pakao. Drugi po veli&#269;ini &#269;e&#353;ki grad, za nas kao da ne postoji. Kad Hrvati uspore&#273;uju Zagreb sa srednjoeuropskim urbanim sredi&#353;tima, ovako nespremni za kriti&#269;ku autorefleksiju, slijepi kod o&#269;iju i bez dovoljno...<br/>... ponornica, o tome ho&#263;e li ga sutra u Gradskoj skup&#353;tini ili u <B>Saboru</B> poduprijeti ili ru&#353;iti vrap&#269;anska..."

}

**mark** tag mark

**description** tag description

**snippet** HTML snippet (if tag came from query)

## 8.9. Folder query

{

"id": "111c659e-1584-11e3-b68b-64315096cc59",

"name": "Travel",

"folder": { [folder](#_k9gtf39n882c) },

"sourceGroupParams": [

{

"sourceGroup": "news",

"lastRunTime": "2017-01-23T21:34:20.002+01:00"

},

{

"sourceGroup": "instagram",

"lastRunTime": "2018-09-27T19:21:35.212+02:00"

},

{

"sourceGroup": "twitter",

"lastRunTime": "2017-01-23T21:34:20.002+01:00"

},

{

"sourceGroup": "facebook",

"lastRunTime": "2017-01-23T21:34:20.002+01:00"

}

],

"type": "Advanced",

"query": "Barbados OR \"Trinidad and Tobago\"",

"createNameTag": true,

"extractKeywords": true,

"enabled": true,

"locales": [ "hr", "sl", "sr" ]

}

**#id** Metricom folder query ID.

**name** Query name.

**folder** [folder](#_cezm78bhcink).

**sourceGroupParams** Array of source group specific parameters. Each source group this query is configured for will have its own set of parameters.

**sourceGroupParams.sourceGroup** [source group](#_zibnowycfr) this parameters are for

**sourceGroupParams.lastRunTime** When was the last time this query was run for this source group.

**type** [Query type](#_jz53aishp9xb).

**createNameTag** Should this query append tag equal to query name to each article it places in some folder. If this parameter is set to true, then name atribute is mandatory.

**extractKeywords** Should this query extract found keywords as tag descriptions. If this parameter is set to true, then createNameTag atribute must be also set to true.

**enabled** Is this query enabled or not.

**locales** Array of [locales](#_h3shuvy2xoyd) for which query should run. At least one locale must be specified.

**sourceWhitelist** Array of sources that this query should run. Note that sources, if given, must overlap with configured source groups.

**sourceBlacklist** Array of sources that should be excluded from query results.

**validBefore** Date after which query should be automatically disabled.

» *[only for queries of type Simple]*

**keywordsWhitelist** Keywords that MUST appear in articles (all of them). One of keywordsWhitelist and/or keywords must be defined.

**keywordsBlacklist** Keywords that MUST NOT appear in articles (none of them). Optional parametar.

**keywords** Keywords that SHOULD appear in articles (at least one of them). One of keywordsWhitelist and/or keywords must be defined.

» *[only for queries of type Advanced]*

**query** Search query ([syntax](#_p67fxgdu80oj)).

» *[only for queries of type Similarity]*

**query** Text that should be searched for, based on similarity.

**threshold** Percentage of similarity that triggers storing article in folder (e.g. if threshold is 70, that any article similar at least 70% with text given in query atribute will be stored in folder)

**publishedAt** When searched text is published.

**importedAt** When query is created.

**reference** Textual reference (ID of any sort) that relates to original text.

## 8.10. Folder share

{

"folder": { [folder](#_k9gtf39n882c) },

"sharee": { [user](#_q67k2fr5jika) },

"canEdit": true

}

**#folder** [folder](#_cezm78bhcink)

**#sharee** Metricom user that this folder was shared with

**canEdit** can user with whom folder was shared alter it's content

## 8.11. Folder alarm

{

"folder": { [folder](#_k9gtf39n882c) },

"user": { [user](#_q67k2fr5jika) },

"type": "Email",

"interval": "Delta"

}

**#folder** [folder](#_cezm78bhcink)

**#user** Metricom user that this alarm belongs to

**type** [Alarm type](#_v9to8a23t4u4)

**interval** [Alarm interval](#_wsd6hp7w8hnn)

## 8.12. Metric

{

"after": "2019-01-01",

"before": "2019-01-31",

"dirty": false,

"keywords": {

"vrtić": 589,

"sloboda": 501,

"industrija": 477,

"gradonačelnik": 312,

"skupština": 291,

"hybrid": 235,

"grad": 123,

"brno": 18

},

"influencers": [ { [influencer](#_be038vmsx4vx) }, { [influencer](#_be038vmsx4vx) }, { [influencer](#_be038vmsx4vx) } /\* ... \*/ ],

"dailyMetrics": [ { [dailyMetric](#_gxm0eaaqcwh0) }, { [dailyMetric](#_gxm0eaaqcwh0) }, { [dailyMetric](#_gxm0eaaqcwh0) } /\* ... \*/ ],

"count": 6,

"engagements": 237693,

"impressions": 254067,

"impressionsPositive": 0,

"impressionsNegative": 0,

"mostPopularFolderMetric": { [mostPopularFolderMetric](#_q5idhugcqd1s) }

}

**after** From which date this statistics is calculated for.

**before** To which date this statistics is calculated for.

**dirty** Set to true when metric contains uncomplete data (when metric is retrieved with timeout and timeout elapsed before all metrics were done calculating)

**keywords** Map with top keywords and number of their occurrences.

**influencers** List of top [influencers](#_be038vmsx4vx). NOTE: not all influencer's attributes are set, only postsCount and postsImpressions.

**dailyMetrics** Array of [daily metrics](#_gxm0eaaqcwh0), one for each day requested. **NOTE**: if at some day there were no articles in given folder(s), then daily metrics for that particulay day will **not** be included.

**count** Total number of articles in given folder(s) for requested time period.

**engagements** Sum of all articles engagements in given folder(s) for requested time period.

**impressions** Sum of all articles impressions in given folder(s) for requested time period. **NOTE**: impressions may be greater then sum of impressionsPositive and impressionsNegative - difference is number of neutral impressions.

**impressionsPositive** Sum of all articles positive impressions in given folder(s) for requested time period.

**impressionsNegative** Sum of all articles negative impressions in given folder(s) for requested time period.

**mostPopularFolderMetric** Metric for most popular folder. Available only when metric is requested for more than one folder.

## 8.13. Daily metric

{

"day": "2019-01-02",

"sourceGroupMetrics": {

"facebook": {

"sourceGroup": "facebook",

"count": 12,

"positive": 5,

"negative": 2,

"male": 0,

"female": 0,

"engagements": 10005,

"impressions": 11691,

"impressionsPositive": 7559,

"impressionsNegative": 1025

},

"news": {

"sourceGroup": "news",

"count": 5,

"positive": 2,

"negative": 1,

"male": 0,

"female": 0,

"engagements": 122,

"impressions": 150,

"impressionsPositive": 52,

"impressionsNegative": 17

}

},

"count": 17,

"positive": 7,

"negative": 3,

"male": 0,

"female": 0,

"engagements": 10127,

"impressions": 11841,

"impressionsPositive": 7611,

"impressionsNegative": 1042

}

**day** Date for which this statistics relates to.

**sourceGroupMetrics** Map of statistics for each [source group](#_zibnowycfr) separately. Only source groups that had at least one article in given folder(s) and date are included in this map.

All the other attributes has same meaning as equaly named ones described for [Metrics](#_hqe9kfkrkc1l).

## 8.14. Most popular folder metric

{

"folder": { [folder](#_k9gtf39n882c) },

"metric": { [metric](#_s2qxw2ci0pkg) }

}

**folder** Most popular folder

**metric** Metric for most popular folder

## 8.15. Metricom status

{

"version": "1.297.2"

}

**version** current app version

## 8.16. User

{

"id": "fb95aaea-6029-11e9-a9cf-27e1413e21a2",

"email": "john.doe@metricom.eu",

"emailVerified": true,

"phone": "+38515551234",

"phoneVerified": false,

"state": "PromoWaitingForEmailVerification",

"expiresAt": "2019-05-08T10:21:41.644+02:00",

"name": "John Doe",

"locale": "hr",

"foldersQuota": 2,

"queriesPerFolderQuota": 3,

"permissions": [ { [permission](#_9x7cf5b98d5m) }, { [permission](#_9x7cf5b98d5m) }, { [permission](#_9x7cf5b98d5m) } /\* ... \*/ ],

"@fields": [ ... ]

}

**#id** Metricom user ID

**email** E-mail

**emailVerified** Is e-mail verified or not

**phone** Phone number

**phoneVerified** Is phone number verified or not

**state** Current user's [state](#_269ksbnl2s5n)

**expiresAt** Date when user's promo period will expire

**name** Full name

**locale** User's default [language](#_h3shuvy2xoyd)

**foldersQuota** Maximum number of folders that user is allowed to have

**queriesPerFolderQuota** Maximum number of folder queries that user is allowed to have

**permissions** List of users [permissions](#_9x7cf5b98d5m)

**@fields** List of initialized attributes

## 8.17. Error

{

"code": "InvalidNewPassword",

"message": "New password is invalid (should be at least 8 characters)"

}

**code** machine-parsable error code

**message** user-readable error message (in English)

Possible error codes are:

|  |  |  |
| --- | --- | --- |
| **Code** | **Description** | **HTTP code** |
| **ServerError** | Something serious went south on server. Hopefully, you won't be seeing this much :) | 500 |
| **InvalidAuth** | Authorization bearer token missing or invalid (possibly expired) | 401 |
| **UnknownService** | Client requested service that doesn't exists. Check HTTP method and/or URI. | 400 |
| **AccessDenied** | Tried to access entity (e.g. folder) that current user doesn't have access to | 403 |
| **QuotaExceeded** | Tries to create resource (folder, folder query, ...) over allowed quota | 403 |
| **InvalidParam** | Some parameter (or attribute of JSON payload) is either unparsable, unsupported or missing | 400 |
| **PayloadMissing** | Returned by services that expect JSON entity in request body but body was empty or unparsable | 400 |
| **PayloadMismatch** | Returned when entity was sent (either POST or PUT) on URL that represents another entity | 400 |
| **UnknownEntity** | Requested entity (article, folder, user, ...) doesn't exists | 404 |
| **ResourceUnavailable** | Requested resource (e.g. article image or PDF) couldn't be found or it not generated | 404 |
| **EmailAlreadyRegistered** | Returned by [User registration](#_3jsv8qe8qagq) service when user with provided email already exists in Metricom | 409 |
| **PhoneAlreadyRegistered** | Returned by [User registration](#_3jsv8qe8qagq) service when user with provided phone already exists in Metricom | 409 |
| **InvalidPassword** | Provided password doesn't conform to Metricom's security guidelines | 400 |
| **EmailAlreadyVerified** | Returned by [User resend validation email](#_3fweqkg86ms2) service when user's email is already verified (note that verification email could have come just millis prior to service invocation) | 400 |
| **InvalidQueryExpression** | Provided search query was syntactically incorrect | 400 |
| **QueryTimeout** | Search query timed out | 408 |
| **QueryAborted** | Search query was aborted (most probably by another search query from same user) | 409 |

## 8.18. Auth realm info

{

"realm": "metricom",

"public\_key": "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAhZWSlBm5gXmMftZVCx1v7rCETG20WDcA/K04hsBLguKg8x8DdGNEI3R3qbS6pNw9Ij1c+yMEIg7WQ9UhDIXowLPSlE7K9yDA/YylwZ6hPX5lMRce0USvLOmKc1YRpFNQ5ovUgYJ44pvuZ9DbpgXKKv6hzTF6HFiLlMKLTMv5Q+E0ZBXGSE61rGlhfCFZujE4cfqCHV9/dBQfh0z4pJzctiGg0s2f+yoVWYCYUiEGPKCXc/Cskp4aAezhUJjDhusLj5Pxzk8CMl572QnYTzKd7++IxULuPo7/rXKdMfoy1XKF69yFUQq//8MT4IzApqfaU+kvwomvSZihzmBV7arfUQIDAQAB",

"token-service": "https://login.metricom.eu/auth/realms/metricom/protocol/openid-connect",

"account-service": "https://login.metricom.eu/auth/realms/metricom/account",

"tokens-not-before": 0

}

**realm** auth realm name

**public\_key** server's public key

**token-service** OIDC endpoint

**account-service** user-facing web interface for account management

**tokens-not-before** timestamp before which any token is considered invalid (currently unused, but it may be used in future to invalidate compromised tokens)

## 8.19. Auth token info

{

"access\_token": "<...>",

"expires\_in": 300,

"refresh\_token": "<...>",

"refresh\_expires\_in": 604800,

"token\_type": "bearer",

"not-before-policy": 0,

"session\_state": "8bc2c096-2496-4775-9f37-af744b903145",

"scope": ""

}

**access\_token** access token that you can use for authorization

**expires\_in** validity of access token (in seconds)

**refresh\_token** refresh token that you can use to obtain another access token when last one expires

**refresh\_expires\_in** validity of refresh token (in seconds, 0 means "valid forever")

## 8.20. Auth error

{

"error": "invalid\_grant",

"error\_description": "Invalid user credentials"

}

**error** machine-parsable error code

**error\_description** user-readable error description (in English)

## 8.21. Contact

{

"type": "Email",

"locale": "hr",

"value": "info@metricom.eu",

"@fields": [ "value" ]

}

**#type** [Contact type](#_3e78rjf4v8xq).

**#locale** Language that contact is for.

**value** Contact address (phone number for Phone type, e-mail address for Email type etc.).

**@fields** List of initialized attributes

# 9. Query syntax

Metricom supports advanced Google-like query syntax using operators like AND, OR and NOT, quotes and brackets.

Details can be found [here](https://lucene.apache.org/core/5_1_0/queryparser/org/apache/lucene/queryparser/classic/package-summary.html#package_description).

# 10. Changelog

**2021-03-22**

* [Source articles feed](#_a38ts0tw980w) service: removed "\_next" from URL
* [Multiple articles](#_7xqw8mspn95d) service: removed "\_next" from URL
* [Search](#_f1j2qu7x3tpf) service: removed "\_next" from URL
* [Folder content list](#_7xwebdnh8ele) service: removed "/list" from URL
* [Folder content count](#_bhtaxlwcborr) service: removed "\_next" from URL

**2021-02-15**

* Changed root URL from https://metricom.eu/api/ to https://api.metricom.eu/rest/

**2021-01-13**

* Removed services:
  + Source articles
  + Article comments
  + Article comments feed
  + Authors list
  + Author articles
  + Author articles feed
* All services and entites converted to @fields logic
* [Source articles feed](#_a38ts0tw980w) service:
  + appended "\_next" to the end of URL
  + changed return type
* [Multiple articles](#_7xqw8mspn95d) service:
  + appended "\_next" to the end of URL
  + changed return type
* [Search](#_f1j2qu7x3tpf) service:
  + appended "\_next" to the end of URL
  + changed return type
* [Folders list](#_quetj6ckjn62) service: updated URL
* New service: [Folders list (sharee)](#_6szo32vmj5o4)
* New service: [Folders list (collaborator)](#_k7h761g0r9xf)
* [Folders metric](#_2fgtzzgu3klm) service: updated URL (removed trailing 's')
* [Folder content list](#_7xwebdnh8ele) service:
  + appended "/list" to the end of URL
  + new parametar: indexed\_after
  + new parametar: indexed\_before
  + parametar after renamed to published\_after
  + parametar before renamed to published\_before
  + new parametar: impressions\_from
  + new parametar: impressions\_to
  + new parametar: engagements\_from
  + new parametar: engagements\_to
  + new parametar: stored\_after
  + new parametar: stored\_before
  + parametar order:
    - DateDesc renamed to PublishedDateDesc
    - DateAsc renamed to PublishedDateAsc
    - EngagementDesc renamed to Engagement**s**Desc
    - EngagementAsc renamed to Engagement**s**Asc
    - new value: IndexedDateDesc
    - new value: IndexedDateAsc
  + All paging parameters have changed, same as their usage regarding order. See notes under parameter list for how to properly page results.
* [Folder content count](#_bhtaxlwcborr) service:
  + appended "\_next" to the end of URL
  + same parameter changes as for [Folder content list](#_7xwebdnh8ele) (sans paging parameters)
* [Folder content store](#_gobkhq5nmsc9) service: changed return type
* [Folder metric](#_8cazk9o6y1x) service: updated URL (removed trailing 's')
* [Author](#_bs91f6lenp0o) entity: externalProperties.@type will soon be renamed to reflect source id, instead of source group:
  + facebook -> facebook.com
  + twitter -> twitter.com
  + instagram -> instagram.com
  + youtube -> youtube.com
  + pinterest -> pinterest.com
* [Influencer](#_be038vmsx4vx) entity:
  + doesn't extend Author entity anymore, but references it via author attribute
  + sourceStats attribute renamed to externalProperties
  + all externalProperties attributes renamed to cammelCase
* [Article](#_vhxuyzr5csgr) entity:
  + external fields (Facebok, Twitter, ...) grouped in single object: externalProperties
  + asd
* [Folder query](#_vd0pjtyr2n8w) entity: languages renamed to locales
* [Metric](#_s2qxw2ci0pkg) entity:
  + engagement renamed to engagement**s**
  + dailyStats renamed to dailyMetrics
* [Daily metric](#_gxm0eaaqcwh0) entity:
  + engagement renamed to engagement**s**
  + sourceGroupStats renamed to sourceGroupMetric**s**
  + sourceGroupMetrics.<source group>.engagement renamed to engagement**s**
  + sourceGroupMetrics.<source group>.group renamed to sourceGroup

**2020-11-17**

* [Source](#_fi4cok3f9g32)'s attribute "mark" renamed to "id"
* @fields logic in [Source](#_fi4cok3f9g32) and related services ([Source list](#_pf84viepv8do), [Source](#_t895a03oy4dh))

**2020-11-09**

* [Author](#_bs91f6lenp0o)'s external fields (Facebok, Twitter, ...) grouped in single object: externalProperties

**2020-07-23**

* Updated fields for [Article](#_vhxuyzr5csgr):
  + renamed:
    - realTitle -> title
    - fullText -> text
    - commentsCount -> commentCount
    - facebookCommentsCount -> facebookCommentCount (and changed meaning)
    - twitterInReplyToStatusExternalId -> twitterInReplyToStatusId
    - twitterInReplyToUserExternalId -> twitterInReplyToUserId
    - twitterQuotedStatusExternalId -> twitterQuotedStatusId
    - twitterRetweetedStatusExternalId -> twitterRetweetedStatusId
  + removed:
    - youTubeCommentCount -> use commentCount
    - youTubeRating -> use youTubeLikeCount, youTubeDislikeCount and youTubeFavoriteCount
    - instagramCommentCount -> use commentCount
  + added:
    - authorGender
    - show
    - lastSync
    - facebookLastSync
    - twitterLastSync
    - pinterestLastSync
    - facebookThankfulCount
    - facebookPrideCount
    - facebookCareCount
    - youTubeLikeCount
    - youTubeDislikeCount
    - youTubeFavoriteCount
    - youTubeEmbedHtml
    - pinterestBoard
    - redditUpCount
    - redditDownCount
    - engagements
    - totalEngagements
    - cpm
    - cpe
    - sentiment
* Updated fields for [Influencer](#_be038vmsx4vx):
  + renamed:
    - postsCommentsCount -> postsCommentCount
    - postsEngagement -> postsEngagements

**2019-10-29**

* New service: [Folder content purge](#_ar1vxgsfqf6n)
* New service: [Contacts list](#_114cg9voxq6i)

**2019-10-22**

* Introduced first [field-aware](#_5kzusplib7j8) entity: [User](#_q67k2fr5jika)
* Replaced userId with (partial) User objects in [Folder](#_k9gtf39n882c), [Folder share](#_yoedxrigd1r) and [Folder alarm](#_vpra1ocx7s33) entities

**2019-05-27**

* New service: [Folder content store](#_gobkhq5nmsc9)
* Automatically storing past articles during [folder query creation](#_u52knr19bkvx) (parameter store)
* Service for notification token (un)registering split to two separate services:
  + Authorization-protected [Register user notification token](#_fgz7m83bvbk7)
  + Public [Unregister notification token](#_2gs6veu5qxjd)
* removed plural forms from parameters in Search service:
  + keywords\_must → keyword\_must
  + keywords\_must\_not → keyword\_must\_not
  + keywords\_should → keyword\_should

**2019-05-24**

* New services for managing folder alarms: [Folder alarms list](#_5z2my83ny71) and [Folder alarms count](#_fxyjd4w1je1w)

**2019-05-22**

* New service: [User notification token](#_fgz7m83bvbk7)

**2019-05-20**

* Removed PUT from [Folder content](#_eiizgcxoal9n) service (use PUT on [Folder content list](#_7xwebdnh8ele))

**2019-05-16**

* Documented required permissions for each service
* Removed permission FolderDashboard

**2019-05-15**

* New [error code](#_yatljek4ya9s): InvalidAuth
* New [source groups](#_zibnowycfr): press, tv and radio
* Refactored [permissions](#_9x7cf5b98d5m)

**2019-05-06**

* New [error code](#_yatljek4ya9s): QuotaExceeded

**2019-05-02**

* New service: [User resend validation email](#_3fweqkg86ms2)
* New fields in [User entity](#_q67k2fr5jika): foldersQuota and queriesPerFolderQuota

**2019-04-30**

* timeout parameter in [Folders metrics](#_2fgtzzgu3klm) and [Folder metric](#_8cazk9o6y1x)
* New field in [Metric](#_s2qxw2ci0pkg) entity: dirty

**2019-04-25**

* New field in [Metric](#_s2qxw2ci0pkg) entity: mostPopularFolderMetric
* Option for sorting [folder content](#_7xwebdnh8ele) by engagement

**2019-04-19**

* New service: [User registration](#_3jsv8qe8qagq)
* New fields in [User entity](#_q67k2fr5jika): emailVerified, phoneVerified and state

**2019-04-18**

* New service: [User password forgot](#_p3qh2vqfqwxw)
* Addes phone field to [User](#_q67k2fr5jika) entity
* Changed URL for [User password](#_evd3prmnxo3l) service

**2019-04-15**

* New services: [User](#_i73jwygdp1s) and [User password](#_evd3prmnxo3l)

**2019-04-15**

* New services: [Logout](#_h0oncek81two), [Auth realm info](#_2cgxkelek4ei), [Metricom status](#_87hxe1c1wmh0)

**2019-04-09**

* PUT method in [Folder content list](#_7xwebdnh8ele) service for adding multiple articles to folder
* New services: [Folders shares list](#_48d7jk54o7o0), [Folder shares list](#_zfgssho65blr) and [Folder share](#_mcgoqbgye1de)
* Changed folder metrics paths in [Folders metrics](#_2fgtzzgu3klm) and [Folder metrics](#_8cazk9o6y1x) (stats -> metrics)
* Added userId field to [Folder entity](#_k9gtf39n882c).

**2019-04-08**

* Folder "statistics" renamed to "metrics"
* New service: [Folders metrics](#_w5umlzeohrsu) for fetching cumulative metrics across all user's folders (and optionally ones shared with user)
* Added engagement field to [Metrics](#_hqe9kfkrkc1l) and [Daily metrics](#_gxm0eaaqcwh0)
* Remove folder field from [Metrics](#_hqe9kfkrkc1l)
* Added postsEngagement field to [Incluencer](#_be038vmsx4vx)

**2019-04-01**

* PUT and DELETE methods in [Folder content service](#_eiizgcxoal9n)
* removed support for XML responses/payloads

**2019-03-29**

* [Influencers list](#_7wp06b2fxhw) and [Folder statistics](#_4gglq8p2br3v) services

**2019-03-25**

* new parameters in [Search](#_f1j2qu7x3tpf) service: keywords\_must, keywords\_must\_not and keywords\_should

**2019-03-21**

* added support for multiple locale parameters in [Search](#_f1j2qu7x3tpf) service
* full CRUD in [Folder](#_ihrf2aqm6zyf) service
* [Folder queries list](#_hnzdshod68ei), [Folder queries count](#_m831fm2hty4f) and [Folder query](#_1iuk8ku4rjuw) services
* Changed syntax in entities documentation: optional fields are now shown in grey color, while updatable fields are underscored.

**2018-08-20**

* [Article entity](#_q4v5f8ok9yos) attributes changed:
  + title renamed to displayTitle
  + added new attribute: realTitle

**2018-07-30**

* changed URL for **MOST services**; most changes are simple and easy to miss (e.g. api/author -> api/author**s**, api/folder -> api/folder**s**), so check every letter
* added group parameter to [Sources list](#_pf84viepv8do) service

**2018-07-04**

* added date attribute to [Folder content](#_kf4856ep7p0z) entity
* updated parameters in [Folder articles](#_7xwebdnh8ele) and [Folder articles count](#_jahxfjnlbnrs) services:
  + parameter relevance renamed to relevance\_from and added new parameter relevance\_to
  + parameter orderByGroups renamed to order\_by\_groups
  + parameter fromDate renamed to page\_date\_from
  + parameter fromImpressions renamed to page\_impressions\_from
  + parameter toDate renamed to page\_date\_to
  + parameter toImpressions renamed to page\_impressions\_to

**2018-06-02**

* updated [PUSH service](#_e5bclb9j4wmr) specification

**2018-05-30**

* new [authorization](#_y0xfl975uwo8)

**2017-12-18**

* Pinterest attributes in [articles](#_q4v5f8ok9yos):
  + pinterestPinCount
  + pinterestSaveCount
  + pinterestCommentCount

**2017-12-13**

* new Facebook type of likes for [articles](#_q4v5f8ok9yos) (in addition to existing facebookLikeCount):
  + facebookLoveCount
  + facebookWowCount
  + facebookHaHaCount
  + facebookSadCount
  + facebookAngryCount
  + facebookTotalReactionsCount

**2017-12-06**

* new attributes for [articles](#_q4v5f8ok9yos):
  + externalType
  + parentUrl
  + parentExternalId
  + twitterFavoriteCount
  + twitterInReplyToScreenName
  + twitterInReplyToStatusExternalId
  + twitterInReplyToUserExternalId
  + twitterQuotedStatusExternalId
  + twitterRetweetedStatusExternalId

**2017-04-25**

* new service: [authors list](#_67i0nfnx6fwq)

**2017-01-24**

* support for filtering by author(s) in [folder articles](#_7xwebdnh8ele) and [folder articles count](#_jahxfjnlbnrs) services: use author parameter

**2016-12-08**

* added pinterest [source group](#_zibnowycfr)

**2016-11-22**

* new service: [folder article](#_eiizgcxoal9n)
* added support for backwards paging in [folder articles](#_7xwebdnh8ele) service: use toDate/toImpressions parameters

**2016-11-15**

* changed paging in [folder articles](#_7xwebdnh8ele) service: instead of offset, use fromDate/fromImpressions parameters
* new service: [folder articles count](#_jahxfjnlbnrs)

**2016-11-14**

* multiple tags support in [folder articles](#_7xwebdnh8ele) service

**2016-11-10**

* new parameters in service [folder articles](#_7xwebdnh8ele): tag, order and orderByGroups
* new service: [folder tags](#_7edexosbuk8p)

**2016-10-24**

* new service: [folder list](#_ef43sfbf7c3q)
* new service: [folder details](#_ihrf2aqm6zyf)
* changed XML output format of [active sources](#_pf84viepv8do) service (JSON output remains the same)

**2016-10-21**

* changes all URLs to httpS
* removed description and introText attributes from article entity
* updated category format

**2016-04-29**

* added tags attribute to [Author](#_bs91f6lenp0o) entity

**2016-04-27**

* added note attribute to [Author](#_bs91f6lenp0o) entity

**2016-02-18**

* added externalId attribute to [Article](#_q4v5f8ok9yos) entity

**2016-01-22**

* [Author](#_bs91f6lenp0o) entity got one additional attribute id of type UUID
* Author related services ([details](#_67i0nfnx6fwq), [articles](#_hwdmkhizgoev), [articles feed](#_3jaoeb9oekxw)) expect author ID instead of author key (combination of external source mark and external ID)