

Business Events API Documentation

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General Information

Bisnode Business Events

BBE aims at detecting all relevant business events, from any public source on the internet in any language, about all companies worldwide, in real time.

Release 1 of Bisnode Business Events has been launched on April 27th, 2017, and monitors international news in English, for companies in ECP database, in order to deliver business events amongst :

- new business units
- new service and products
- new markets
- business relationships
- investments
- merge & acquisition
- layoff
- bankruptcies

Events are delivered with an API (<https://events-api.swan.business/api/v1>) and a front-end (<https://events.swan.business>), combined with a daily e-mail notification to users, corresponding to their portfolio (monitored companies).

BBE is developed following an Agile methodology for continuous improvements. Next releases will cover more news sources (international and local ones), in English, German, French and Dutch.

Access request

Access request is managed directly from the front-end <https://events.swan.business> via the "Request Access" Button, or via the following link : <https://events.swan.business/#/access/signup>

The access request for any user with a bisnode.com e-mail address is automatically accepted.

Contact

All business & technical requests can be sent to bbe@bisnode.com .

Root URL

The root URL for this API is `https://events-api.swan.business/api/v1`.

API Credits

Each request costs a certain number of credits. The exact cost of each request is mentioned in its documentation.

The amount of remaining credits for the current period can be obtained via a costless API call, which also returns the total credits available for the current period as well as the period itself. Credits reset at 00:00 CET.

You will be alerted by email when you have used up 80% of your credits.

HTTP Status Codes

Code	Description
200	OK. Everything went as expected.
400	Bad Request. Your request was either malformed or was missing required parameters. See the returned error message for more information.
401	Authorisation Required. You forgot to include a token with your request.
402	Payment Required. You have reached the limits included in your current plan.
403	Forbidden. You have insufficient permissions or remaining credits to access the requested resource. See the returned error message for details.
429	Too Many Requests. You have reached your quota for the current period.
404	Not Found. The API endpoint you're trying to access doesn't exist (no payload) or you supplied a non-existent ID to a data call (check the payload).
405	Method Not Allowed. You are accessing an API endpoint using an unsupported method.

Shared Response Data

All responses contain a boolean `success` field that indicates whether the request succeeded or not. Depending on the response type, some data will always be present in the response, as documented below.

Success Responses

All successful responses contain a `remaining_credits` field to inform the user of their number of remaining credits for the current period.

Error Responses

All error responses contain an `error` field detailing the error that occurred. Below is a list explaining global errors and what to do or check when they happen. Call-specific errors are documented in the documentation for `call`.

Status Code	Error	Description
400	<code>missing_empty_or_invalid_parameters</code>	One or more required parameters are either missing from your request or contain invalid values. Check the <code>details</code> key for more information.

400	at_least_one_parameter_must_be_defined_and_valid	At least one of the parameters specified in the <code>details</code> key must be defined and valid.
400	invalid_parameter	An optional parameter has an invalid value. Check the <code>details</code> key for more information.
400	malformed_json	The JSON in your request body is malformed. See the <code>details</code> key in the response for details.
400	malformed_authorization_header	The provided Authorization header is malformed.
400	invalid_token	The token passed with the request is invalid.
401	authorisation_required	You forgot to pass a token with your request or provided an invalid one.
401	expired_token	The token passed with the request has expired.
403	insufficient_permissions	You have insufficient permissions to access the requested resource.
403	not_enough_credits	You do not have enough remaining credits to access the requested resource.
429	quota_exceeded	You have reached your quota for the current period.
404	unknown_endpoint	The API endpoint you requested doesn't exist, or you are accessing it using an unsupported method.

Authentication

All calls made to the API need to be authorised by a token passed with each request using the `Authorization` header, as follows:

Header	Value
Authorization	Bearer token (e.g. Bearer eyJ1c2Vyljoid...)

Obtaining a token

Authentication tokens expire 12 hours after having been issued; refresh tokens expire after 365 days. To get a new token after it expires, you can authenticate again or use the `/refresh_token` endpoint with your refresh token to avoid passing your credentials again.

Call	<code>/authenticate</code>												
Method	POST												
Cost	0 credits												
Request body	<p>A JSON object with the fields specified below.</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Required</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>email</td> <td>string</td> <td>YES</td> <td>The email associated to the account.</td> </tr> <tr> <td>password</td> <td>string</td> <td>YES</td> <td>The password associated to the email.</td> </tr> </tbody> </table>	Name	Type	Required	Description	email	string	YES	The email associated to the account.	password	string	YES	The password associated to the email.
Name	Type	Required	Description										
email	string	YES	The email associated to the account.										
password	string	YES	The password associated to the email.										
Headers	<table border="1"> <thead> <tr> <th>Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Content-Type</td> <td>application/json</td> </tr> </tbody> </table>	Name	Value	Content-Type	application/json								
Name	Value												
Content-Type	application/json												
Output	A JSON object containing the API token and a refresh token to obtain a new token when the current one expires, as well as their respective expiration dates as UNIX timestamps.												

Specific error codes	Status Code	Error	Explanation
	401	incorrect_username_or_password	The credentials you tried authenticating with are incorrect.
Example output	<pre> { "success": true, "token": "eyJ0eXB1IjoiY...", "token_expiration": 1490658456, "refresh_token": "eyJ0eXB1Ijo...", "refresh_token_expiration": 1522151256, "user": { "first_name": "John", "last_name": "Doe", "email": "john.doe@bisnode.com" } } </pre>		

Refreshing your token

Call	/refresh_token													
Method	GET													
Cost	0 credits													
Parameters	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Required</th> <th>Example</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>refresh_token</td> <td>string</td> <td>YES</td> <td>eyJ0eXB1Ijo...</td> <td>The refresh token that was provided with the last authentication.</td> </tr> </tbody> </table>	Name	Type	Required	Example	Description	refresh_token	string	YES	eyJ0eXB1Ijo...	The refresh token that was provided with the last authentication.			
Name	Type	Required	Example	Description										
refresh_token	string	YES	eyJ0eXB1Ijo...	The refresh token that was provided with the last authentication.										
Output	A JSON object containing the API token and a refresh token to obtain a new token when the current one expires, as well as their respective expiration dates as UNIX timestamps.													
Specific error codes	<table border="1"> <thead> <tr> <th>Status Code</th> <th>Error</th> <th>Explanation</th> </tr> </thead> <tbody> <tr> <td>401</td> <td>invalid_refresh_token</td> <td>The refresh token that was supplied to refresh your token was invalid or has expired.</td> </tr> <tr> <td>403</td> <td>access_revoked</td> <td>The refresh token that was supplied did not correspond to an existing user.</td> </tr> </tbody> </table>	Status Code	Error	Explanation	401	invalid_refresh_token	The refresh token that was supplied to refresh your token was invalid or has expired.	403	access_revoked	The refresh token that was supplied did not correspond to an existing user.				
Status Code	Error	Explanation												
401	invalid_refresh_token	The refresh token that was supplied to refresh your token was invalid or has expired.												
403	access_revoked	The refresh token that was supplied did not correspond to an existing user.												

Example output	<pre> { "success": true, "token": "eyJ0eXBlijoY...", "token_expiration": 1490658456, "refresh_token": "eyJ0eXBlijo...", "refresh_token_expiration": 1522151256, "user": { "first_name": "John", "last_name": "Doe", "email": "john.doe@bisnode.com" } } </pre>
-----------------------	--

Remaining Credits

Call	/remaining_credits
Method	GET
Cost	0 credits
Parameters	N/A
Output	A JSON object containing the remaining credits and the total daily credits.
Example output	<pre> { "success": true, "remaining_credits": 2000, "period_credits": 2000, "credit_reset_frequency": "daily" } </pre>

Search Calls

Company Search

Search for a company by its name to get its ID for other calls, such as adding it to the user's companies.

Call	/company/search
Method	GET
Cost	1 credit

Parameters		Name	Type	Required	Example	Description
		query	string	YES	bisnode	The string to search for.
		exclude_user_companies	boolean	NO	true	Whether to exclude companies that are already in the user's company list from the search results.
Output		A JSON object containing the search results.				
Example output		<pre> { "success": true, "remaining_credits": 1999, "companies": [{ "numberOfEmployees": "20 - 49", "mainActivity": { "description": "Activities of head offices", "code": "HG7010" }, "score": 19.994081, "name": "Bisnode AB", "vatNo": "SE556341568501", "id": "1:100277670", "country": { "name": "Sweden", "code": "SE" }, "postalAddress": { "zipcode": "16993", "SE_Aregion": { "name": "Stockholm/Södertälje", "code": "GA01" }, "municipality": { "name": "Solna", "code": "GK0184" }, "country": { "name": "Sweden", "code": "SE" }, "city": "SOLNA", "county": { "name": "Stockholm", "code": "GR01" } } }, { "numberOfEmployees": null, "mainActivity": null, </pre>				

```
"score": 19.639814,  
"name": "BISNODE BELGIUM",  
"vatNo": null,  
"id": "107:101607095",  
"country": null,  
"postalAddress": null  
},
```

```
    /* ... */  
  ]  
}
```

Events

Call	/events																																										
Method	GET																																										
Cost	1 credit																																										
Parameters	<table border="1"><thead><tr><th>Name</th><th>Type</th><th>Required</th><th>Default</th><th>Example</th><th>Description</th></tr></thead><tbody><tr><td>company_id</td><td>string</td><td>NO</td><td>All</td><td>123:100272520</td><td>The ID of the company to fetch events for.</td></tr><tr><td>company_vat</td><td>string</td><td>NO</td><td>All</td><td>BE0444777959</td><td>The VAT of the company to fetch events for (has priority over ID).</td></tr><tr><td>types</td><td>string</td><td>NO</td><td>All</td><td>new_unit</td><td>A list of event types to return, separated by pipes (e.g. type1 type2).</td></tr><tr><td>max_age</td><td>integer</td><td>NO</td><td>Inf.</td><td>7</td><td>Max age of events in days (0-infinity).</td></tr><tr><td>page</td><td>integer</td><td>NO</td><td>1</td><td>1</td><td>The page to fetch (1-infinity).</td></tr><tr><td>items_per_page</td><td>integer</td><td>NO</td><td>20</td><td>100</td><td>The number of events to return per page (10-100).</td></tr></tbody></table>	Name	Type	Required	Default	Example	Description	company_id	string	NO	All	123:100272520	The ID of the company to fetch events for.	company_vat	string	NO	All	BE0444777959	The VAT of the company to fetch events for (has priority over ID).	types	string	NO	All	new_unit	A list of event types to return, separated by pipes (e.g. type1 type2).	max_age	integer	NO	Inf.	7	Max age of events in days (0-infinity).	page	integer	NO	1	1	The page to fetch (1-infinity).	items_per_page	integer	NO	20	100	The number of events to return per page (10-100).
Name	Type	Required	Default	Example	Description																																						
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page	integer	NO	1	1	The page to fetch (1-infinity).																																						
items_per_page	integer	NO	20	100	The number of events to return per page (10-100).																																						
Output	A JSON object containing the events.																																										

Example output

```

{
  "success": true,
  "remaining_credits": 1999,
  "total_events": 1849,
  "events": [
    {
      "event_id":
      "e97c7685-0bbb-11e7-b1ad-42010af00018_107:100282513",
      "url": "http://jobs.euractiv.com/node/152129",
      "company_id": "107:100282513",
      "company": {
        "country": {
          "code": "BE",
          "name": "Belgium"
        },
        "name": "Issa"
      },
      "date": {
        "$date": 1492214400000
      },
      "event_type": "business_relation",
      "disambiguation_infos": {
        "event_match": "They will be expected to take
on a variety of responsibilities including contributing to
ISSA's social media and website content, drafting press
releases, working with the media and monitoring the web for
news relevant to ISSA's work."
      }
    },
    /* ... */
  ]
}

```

Company Info

Call	/company				
Method	GET				
Cost	1 credit				
Parameters	At least one of the parameters must be defined.				
	Name	Type	Required	Example	Description
	company_id	string	YES	123:100272520	The ID of the company to fetch info for.
	company_vat	string	YES	BE0444777959	The VAT of the company to fetch events for (has priority over ID).
Output	A JSON object containing the company info.				

Specific error codes

Status Code	Error	Explanation
404	company_not_found	The company wasn't found or isn't in the list of followed companies.

Example output

```

{
  "success": true,
  "remaining_credits": 1999,
  "company": {
    "postalAddress": {
      "zipcode": "16993",
      "SE_Aregion": {
        "name": "Stockholm/Södertälje",
        "code": "GA01"
      },
    },
    "municipality": {
      "name": "Solna",
      "code": "GK0184"
    },
    "country": {
      "name": "Sweden",
      "code": "SE"
    },
    "city": "SOLNA",
    "county": {
      "name": "Stockholm",
      "code": "GR01"
    }
  },
  "business": {
    "numberOfEmployees": {
      "name": "20 - 49",
      "code": "AA05"
    },
    "numberOfOfficeEmployees": {
      "name": "10 - 19",
      "code": "KA04"
    },
    "activities": {
      "subActivities": [],
      "mainActivity": {
        "description": "Activities of head
offices",
        "code": "HG7010"
      }
    }
  },
  "type": {
    "name": "Private company",
    "code": "TY50"
  }
}

```

```
    },
    "name": "Bisnode AB",
    "vatNo": "SE556341568501",
    "id": "1:100277670",
    "group": {
      "groupParent": {
        "name": "Ratos AB",
        "nationalRegistrationNumber": "5560083585",
        "country": {
          "name": "Sweden",
          "code": "SE"
        },
        "id": "1:100174190"
      },
      "parent": {
        "name": "Bisnode Business Information Group
AB",
        "nationalRegistrationNumber": "5566815725",
        "country": {
          "name": "Sweden",
          "code": "SE"
        },
        "id": "1:101315339"
      }
    },
    "phones": [
      {
        "number": "+46 855805900",
        "type": "LeasedLine"
      }
    ],
    "country": {
      "name": "Sweden",
      "code": "SE"
    },
    "legalForm": {
      "name": "Limited company",
      "code": "JF49"
    },
  },
```

```
    "registrationDate": "1988-11-14"
  }
}
```

User Companies

List

Call	/user_companies																		
Method	GET																		
Cost	1 credit																		
Request body	<p>A JSON object with the fields specified below.</p> <table border="1"><thead><tr><th>Name</th><th>Type</th><th>Required</th><th>Default</th><th>Example</th><th>Description</th></tr></thead><tbody><tr><td>page</td><td>integer</td><td>NO</td><td>1</td><td>1</td><td>The page to fetch (1-infinity).</td></tr><tr><td>items_per_page</td><td>integer</td><td>NO</td><td>50</td><td>100</td><td>The number of companies to return per page (20-100).</td></tr></tbody></table>	Name	Type	Required	Default	Example	Description	page	integer	NO	1	1	The page to fetch (1-infinity).	items_per_page	integer	NO	50	100	The number of companies to return per page (20-100).
Name	Type	Required	Default	Example	Description														
page	integer	NO	1	1	The page to fetch (1-infinity).														
items_per_page	integer	NO	50	100	The number of companies to return per page (20-100).														
Output	A JSON object containing the specified page of the user's companies.																		
Example output	<pre>{ "success": true, "total_companies": 42, "remaining_credits": 1999, "companies": [{ "numberOfEmployees": "Unknown", "postalAddress": { "address": "Lerchenstr. 16", "country": { "name": "Germany", "code": "DE" } }, "city": "Wahlstedt", "county": { "name": "Schleswig-Holstein", "code": "GR01" }, "zipcode": "23812" }, { "name": "amnesty international", "id": "123:100594957", "country": { "name": "Germany", "code": "DE" }, "mainActivity": {</pre>																		

```
        "description": "Activities of other membership
organisations n.e.c.",
        "code": "HG9499"
    }
},
{
    "numberOfEmployees": "20 - 49",
    "postalAddress": {
        "zipcode": "16993",
        "SE_Aregion": {
            "name": "Stockholm/Södertälje",
            "code": "GA01"
        },
        "municipality": {
            "name": "Solna",
            "code": "GK0184"
        },
        "country": {
            "name": "Sweden",
            "code": "SE"
        },
        "city": "SOLNA",
        "county": {
            "name": "Stockholm",
            "code": "GR01"
        }
    },
    "name": "Bisnode AB",
    "vatNo": "SE556341568501",
    "id": "1:100277670",
    "country": {
        "name": "Sweden",
        "code": "SE"
    },
    "mainActivity": {
        "description": "Activities of head offices",
        "code": "HG7010"
    }
},
```

```
}
]
```

Add

Call	/user_companies										
Method	PUT										
Cost	1 credit										
Request body	<p>A JSON object with the fields specified below.</p> <table border="1"><thead><tr><th>Name</th><th>Type</th><th>Required</th><th>Example</th><th>Description</th></tr></thead><tbody><tr><td>company_id</td><td>string</td><td>YES</td><td>123:100272520</td><td>The ID of the company to add the user's company list.</td></tr></tbody></table>	Name	Type	Required	Example	Description	company_id	string	YES	123:100272520	The ID of the company to add the user's company list.
Name	Type	Required	Example	Description							
company_id	string	YES	123:100272520	The ID of the company to add the user's company list.							
Output	A JSON object specifying whether the add succeeded.										
Specific error codes	<table border="1"><thead><tr><th>Status Code</th><th>Error</th><th>Explanation</th></tr></thead><tbody><tr><td>402</td><td>max_followed_companies_reached_for_group</td><td>The user group you are in has reached the maximum number of followed companies.</td></tr></tbody></table>	Status Code	Error	Explanation	402	max_followed_companies_reached_for_group	The user group you are in has reached the maximum number of followed companies.				
Status Code	Error	Explanation									
402	max_followed_companies_reached_for_group	The user group you are in has reached the maximum number of followed companies.									
Example output	<pre>{ "success": true, "remaining_credits": 1999 }</pre>										

Remove

Call	/user_companies										
Method	DELETE										
Cost	1 credit										
Parameters	<table border="1"><thead><tr><th>Name</th><th>Type</th><th>Required</th><th>Example</th><th>Description</th></tr></thead><tbody><tr><td>company_id</td><td>string</td><td>YES</td><td>123:100272520</td><td>The ID of the company to remove from the user's company list.</td></tr></tbody></table>	Name	Type	Required	Example	Description	company_id	string	YES	123:100272520	The ID of the company to remove from the user's company list.
Name	Type	Required	Example	Description							
company_id	string	YES	123:100272520	The ID of the company to remove from the user's company list.							
Output	A JSON object specifying whether the removal succeeded.										

Example output	<pre> { "success": true, "remaining_credits": 1999 } </pre>
-----------------------	---

Search

Search for a user company by its name to get its ID for other calls.

Call	/user_companies/search														
Method	GET														
Cost	1 credit														
Parameters	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Name</th> <th style="width: 15%;">Type</th> <th style="width: 15%;">Required</th> <th style="width: 15%;">Example</th> <th style="width: 40%;">Description</th> </tr> </thead> <tbody> <tr> <td>query</td> <td>string</td> <td style="text-align: center;">YES</td> <td>bisnode</td> <td>The string to search for.</td> </tr> </tbody> </table>					Name	Type	Required	Example	Description	query	string	YES	bisnode	The string to search for.
Name	Type	Required	Example	Description											
query	string	YES	bisnode	The string to search for.											
Output	A JSON object containing the search results.														

Example output

```
{
  "success": true,
  "remaining_credits": 1999,
  "companies": [
    {
      "id": "1:100277670",
      "name": "Bisnode AB",
      "score": 20.994081,
      "numberOfEmployees": "20 - 49",
      "mainActivity": {
        "description": "Activities of head offices",
        "code": "HG7010"
      },
      "vatNo": "SE556341568501",
      "country": {
        "name": "Sweden",
        "code": "SE"
      },
      "postalAddress": {
        "zipcode": "16993",
        "SE_Aregion": {
          "name": "Stockholm/Södertälje",
          "code": "GA01"
        },
        "municipality": {
          "name": "Solna",
          "code": "GK0184"
        },
        "country": {
          "name": "Sweden",
          "code": "SE"
        },
        "city": "SOLNA",
        "county": {
          "name": "Stockholm",
          "code": "GR01"
        }
      }
    }
  ]
}
```