

API Data Architecture

Full field specification per endpoint

Version 1.0 | March 2026
External - Restricted

9 endpoints | **~750 data fields** | **14 fiscal years of history**

Endpoint Overview

This document describes the full data structure of the openthebox API. All sample data throughout this document is from MEDIAFIN NV (BE0404800301). Field names are the exact JSON keys from the API response.

#	Endpoint	Fields	Description
1	/api/companies/{vat}	167	Identity, address, activities, snapshot, M&A, valuations
2	/api/companies/{vat}/financial-overview	11 x 14y	Time series: revenue, EBITDA, profit, equity, FTE, health
3	/api/companies/{vat}/annual-accounts	258	Balance sheet, income statement, ratios, social balance
4	/api/companies/{vat}/administrators	100	Persons, legal entities, mandate types, PEP, counters
5	/api/companies/{vat}/administered-companies	52	Companies where this company holds a board mandate
6	/api/companies/{vat}/shareholders	98	Who owns this company? Shares, voting rights, consolidation
7	/api/companies/{vat}/participations	56	Where does this company invest? Subsidiaries, holdings
8	/api/companies/{vat}/publications	129	Official Gazette: articles, appointments, mergers, dissolutions
9	/api/entities/advanced-search	40+ filters	Filter the entire market by financials, sector, region, governance

Authentication & Access

Base URL

```
https://openthebox.be/api
```

Interactive API documentation (Swagger): <https://openthebox.be/api-docs/index.html>

Authentication Method

The API uses OAuth 2.0 Client Credentials flow. Each request must include a Bearer token in the Authorization header:

```
Authorization: Bearer {your_api_token}
```

Some endpoints are available in limited form without authentication (fair use). For unlimited access, a valid token linked to your openthebox subscription is required.

Token Generation

With your subscription you receive a `client_id` and `client_secret`. Use these to generate an access token:

```
curl --request POST \  
  --url https://openthebox.be/oauth/token \  
  --header "content-type: application/json" \  
  --data '{"client_id":"{your_client_id}","client_secret":"{your_client_secret}","  
  "audience":"https://openthebox.be/api","grant_type":"client_credentials"}'
```

Token Lifetime

A token is valid for 24 hours. Best practice: cache the token and refresh it automatically after 23 hours.

Request Example

```
curl --request GET \  
  --url https://openthebox.be/api/companies/BE0404800301 \  
  --header "Authorization: Bearer {your_api_token}"
```

Metadata & Reference Tables

Resource	URL	Contents
code.csv	openthebox.be/app/resources/code.csv	Legal codes, mandate types, statuses
province.csv	openthebox.be/app/resources/province.csv	Province codes (1-11) with NL/FR names
financial_codes_labels.tsv	openthebox.be/app/resources/financial_codes_labels.tsv	Annual account field names NL/FR/EN

Code examples for token generation in various languages:
<https://auth0.com/docs/api/management/v2/get-access-tokens-for-production>

1. Company Profile

GET /api/companies/{vat}

167 fields per company

The base profile of a company. Contains identity, address history, activities, contact details, financial snapshot, growth trends, M&A history and company valuations (Vlerick).

1.1 Identification

Field	Type	Example	Notes
id	int	1069552	Internal OTB ID
vat	string	BE0404800301	VAT number (primary key)
name	string	MEDIAFIN	Official name from CBE
profile.startDate	date	1926-01-01	Incorporation date
profile.status	string	Actief	Active / Ceased / In liquidation
profile.juridicalForm	string	Naamloze vennootschap	
profile.juridicalFormAbbr	string	NV	NV, BV, VOF, CV, ...
profile.juridicalSituation	string	Normale toestand	Incl. codes
snapshotDate	date	2026-02-03	Date of this snapshot

1.2 Name History

Field	Type	Example	Notes
profile.names[].name	string	MEDIAFIN	
profile.names[].kind	string	name	name / commercialName / abbreviation
profile.names[].startDate	date	2006-06-21	
profile.names[].endDate	date		Null if current
profile.names[].deleted	boolean	false	true = historical name

1.3 Address History

Field	Type	Example	Notes
profile.addresses[].street	string	Havenlaan	
profile.addresses[].number	string	86C	
profile.addresses[].zipCode	string	1000	
profile.addresses[].city	string	Brussel	
profile.addresses[].province	string	Brussels Hoofdstedelijk gewest	
profile.addresses[].countryCode	string	BE	ISO 3166-1 alpha-2
profile.addresses[].geoLatitude	float	50.86421	WGS84
profile.addresses[].geoLongitude	float	4.3488	WGS84
profile.addresses[].sources[]	string[]	KBO 2017-03-31	Source reference

1.4 Activities & Joint Committee

Field	Type	Example	Notes
profile.activities[].naceVersion	string	2025	2003 / 2008 / 2025
profile.activities[].naceCode	string	58120	NACE code
profile.activities[].description	string	Uitgeven van kranten	
profile.activities[].classification	string	Hoofdactiviteit	Main / Secondary
profile.jointCommittees[].code	string	200	
profile.jointCommittees[].description	string	Aanvullend PC voor de bedienden	

1.5 Website & Contact

Field	Type	Example	Notes
profile.telephone	string	null	If available
profile.email	string	null	
profile.website	string	null	
profile.websiteInfo.activity	string		AI-generated activity description
profile.websiteInfo.activityKeywords	string[]		Keywords
profile.websiteInfo.logoUrl	string		Company logo

1.6 Financial Snapshot

Field	Type	Example	Notes
financialHealthIndicator	int	10	1=high risk, 10=low risk
equity	int	6856328	Equity (EUR)
operatingIncome	int	91246229	Revenue (EUR)
ebitda	int	16016958	EBITDA (EUR)
gainLossPeriod	int	9194719	Profit/loss (EUR)
employeeCount	int	303	Number of FTE
periodStartDate	date	2012-01-01	Start of available data
periodEndDate	date	2024-12-31	End of last fiscal year

1.7 Growth Trends (annualAccountStats)

Percentage growth over 1, 3 and 10 years for five key metrics. Total 15 fields: 5 metrics x 3 periods.

Field	Type	Example	Notes
..equityDiffPct1Y	float	0.21	+21% equity growth 1y
..operatingIncomeDiffPct1Y	float	0.07	+7% revenue growth 1y
..ebitdaDiffPct1Y	float	0.11	+11% EBITDA growth 1y
..gainLossPeriodDiffPct1Y	float	0.17	+17% profit growth 1y
..employeeCountDiffPct1Y	float	0.03	+3% FTE growth 1y
..*DiffPct3Y / *DiffPct10Y	float		Same for 3y and 10y horizons

1.8 Corporate Events (M&A)

Field	Type	Example	Notes
profile.corporateEvents[].category	string	merger	merger / demerger / ...
profile.corporateEvents[].direction	string	from	from = acquired company
profile.corporateEvents[].date	date	2022-06-29	Transaction date

Counterparty summary (nested snapshot at transaction date)

Field	Type	Example	Notes
...otherCompanySummary.vat	string	BE0544604322	
...otherCompanySummary.name	string	LUXURY LEADS	
...otherCompanySummary.financialHealthIndicator	int	8	At transaction date
...otherCompanySummary.equity	int	25403	Equity at transaction date
...otherCompanySummary.employeeCount	int	1	FTE at transaction date

1.9 Company Valuations (Vlerick)

Multiple-based valuations using EBITDA, sector-specific multiples and a company-specific correction factor. Up to 14 years of history.

Field	Type	Example	Notes
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vlerickValuations[].periodEndDate	date	2024-12-31	
vlerickValuations[].ebitda	float	15002995.76	<i>3y average EBITDA</i>
vlerickValuations[].sector	string	Entertainment & Media	<i>Vlerick classification</i>
vlerickValuations[].baseMultipleAvg	float	6.3	<i>Min/Avg/Max available</i>
vlerickValuations[].correctionFactor	float	1.2	<i>Company-specific</i>
vlerickValuations[].valuationAvg	float	112522468.2	<i>Avg valuation (EUR)</i>

1.10 Availability Flags

Field	Type	Example	Notes
hasAnnualAccounts	boolean	true	
hasAnnualAccountConsolidations	boolean	false	
hasConsolidatedParents	boolean	true	
hasParticipations	boolean	true	
hasSocialBalances	boolean	true	
hasArticles	boolean	true	<i>Official Gazette publications</i>
hasCashFlowStatements	boolean	true	
hasVlerickValuations	boolean	true	
administratorCount	int	8	
administratorPoliticianCount	int	0	<i>PEP directors</i>

2. Financial Overview

GET /api/companies/{vat}/financial-overview

11 fields x 14 fiscal years

Compact time series of the most important financial indicators. Ideal for trend analysis and screening.

Field	Type	Example	Notes
reference	string	2025-00093545	<i>NBB publication reference</i>
periodEndDate	date	2024-12-31	<i>End of fiscal year</i>
equity	float	6856328.11	<i>Equity</i>
operatingIncome	float	91246229.87	<i>Revenue</i>
ebitda	float	16016958.87	
gainLossPeriod	float	9194719.21	<i>Profit/loss</i>
employeeCount	int	303	<i>FTE</i>
financialHealthIndicator	int	10	<i>1-10 score</i>
currency	string	EUR	<i>EUR if empty</i>
orgType	string	ci	<i>ci=corporate individual</i>
isFromPdf	boolean	false	<i>PDF extraction yes/no</i>

3. Annual Accounts

GET /api/companies/{vat}/annual-accounts

258 fields per fiscal year

The full annual accounts in accordance with the Belgian accounting framework. Contains balance sheet, income statement, ratios, cash flow and social balance.

3.1 Balance Sheet: Assets (38 fields)

Field	Type	Example	Notes
assets	float	39010358.45	Total assets
fixedAssets...	float	15052077.98	Fixed assets
intangibleFixedAssets	float	11575902.14	
tangibleFixedAssets	float	279712.22	
financialFixedAssets	float	3196463.62	
participatingInterests...	int	2950000	Participating interests
currentsAssets	float	23958280.47	Current assets
amountsReceivableWithinOneYear	float	18146460.14	
tradeDebtorsWithinOneYear	float	11772900.09	Trade receivables
currentInvestments	float	247317.59	Short-term investments
cashBankHand	float	5063865.48	Cash & equivalents

3.2 Balance Sheet: Liabilities & Equity (30 fields)

Field	Type	Example	Notes
equityLiabilities	float	39010358.45	Total liabilities
equity	float	7635801.32	Equity
issuedCapital	int	2000000	
reserves	float	3126997.22	Total reserves
legalReserve	int	200000	Legal reserve
accumulatedProfitsLosses	float	2508804.1	Retained earnings
untaxedReserves	float	2063957.77	
provisionsPensions...	float	4186522.04	Pension provisions
amountsPayable	float	27008881.96	Total payables
amountsPayableMoreOneYear	int	645000	LT payables
amountsPayableWithinOneYear	float	18176048.28	ST payables
tradeDebtsPayableWithinOneYear	float	6311571.4	Trade payables

3.3 Income Statement (26 fields)

Field	Type	Example	Notes
turnover	float	52790716.02	<i>Turnover</i>
operatingIncome	float	54356304.28	<i>Operating income</i>
rawMaterialsConsumables	float	8039865.38	
servicesOtherGoods	float	18740645.25	
remunerationSocialSecurity...	float	20097586.83	<i>Staff costs</i>
operatingCharges	float	51535274.24	<i>Total operating expenses</i>
operatingProfitLoss	float	2821030.04	<i>Operating profit</i>
ebit	int	2616224	
ebitda	float	6940306.2	
financialIncome	float	667726.86	
financialCharges	float	290386.43	
gainLossBeforeTaxes	float	3248489.43	
incomeTaxes	float	1923948.46	
gainLossPeriod	float	1324540.97	<i>Net result</i>
dividends	int	6000000	<i>Distributed dividends</i>

3.4 Ratios & Indicators (17 fields)

Field	Type	Example	Notes
liquiditeitRuim	float	0.91	<i>Current ratio</i>
liquiditeitEng	float	1.29	<i>Quick ratio</i>
graadFinancieleOnafhankelijkheid	float	0.2	<i>Equity/Total assets</i>
schuldGraad	float	4.11	<i>Debt/Equity</i>
aantalDagenKlantenkrediet	float	71.47	<i>DSO</i>
aantalDagenLeveranciersKrediet	float	72.92	<i>DPO</i>
nettoVerkoopMarge	float	0.05	
ebitdaMarge	float	0.13	
brutoRendabiliteitTotaalActiva	float	0.21	<i>ROA gross</i>
nettoRendabiliteit..NaBelasting	float	0.17	<i>ROE after tax</i>
nettoWerkkapitaal	float	11834888.74	<i>Working capital</i>
nettoFinancieleSchuld	float	-4418865.48	<i>Negative = net cash</i>
toegevoegdeWaardePerPersoneelslid	float	123945.45	<i>Value added per FTE</i>

3.5 Social Balance (117 fields)

Comprehensive workforce overview: headcount by contract, gender, education, inflow and outflow, hours worked and training efforts.

Field	Type	Example	Notes
employeeCount	int	223	<i>Total employees</i>
...TotalFullTimeEquivalentents	float	217.3	<i>Average FTE</i>
...FullTime / PartTime	int	192 / 31	
...MenFullTime / WomenFullTime	int	134 / 58	
...ContractIndefinitePeriodFullTime	int	181	<i>Permanent contract full-time</i>
personnelCostsTotal	float	19818084.23	<i>Total staff costs</i>
numberHoursActuallyWorkedTotal	int	330463	<i>Total hours worked</i>

3.6 Metadata

Field	Type	Example	Notes
reference	string	2013-11300399	<i>NBB reference</i>
periodEndDate	date	2012-12-31	
schemaType	string	full	<i>full / abbreviated</i>
financialHealthIndicator	int	9	
taxReductions[].category	string	Reduction de valeur...	<i>Tax deductions</i>

4. Directors & Mandates

GET /api/companies/{vat}/administrators

100 fields

All directors: natural persons and legal entities, with mandate type, PEP screening, remuneration status and mandate counters.

4.1 Director (natural person)

Field	Type	Example	Notes
...Persons[].firstName	string	Caroline	
...Persons[].lastName	string	Pauwels	
...Persons[].city	string	Watermael-Boitsfort	<i>City, not exact address</i>
...Persons[].isPolitician	boolean	false	<i>PEP flag</i>
...Persons[].companyCount	int	10	<i>Connected companies</i>
...administerMandateCount	int	0	
...administerMandateNonDeclaredCount	int	0	<i>Non-declared</i>
...administerMandateRemuneratedCount	int	0	<i>Remunerated</i>

4.2 Mandate Relationship

Field	Type	Example	Notes
...Relationships[].mandate	string	Gedelegeerd bestuurder	
...Relationships[].isDeclared	boolean	false	
...Relationships[].isRemunerated	boolean	false	
...Relationships[].startDate	date	2006-12-31	
...Relationships[].endDate	date	2028-04-18	<i>Null = indefinite</i>
...publicationHighestRoleProbability	float	0.998	<i>NLP confidence</i>

4.3 Director (legal entity)

Field	Type	Example	Notes
...Companies[].vat	string	BE0882549550	
...Companies[].name	string	WILDCARD CONCEPTS	
...representativePerson.firstName	string	Peter	<i>Permanent representative</i>
...representativePerson.lastName	string	Quaghebeur	

5. Group Structure

GET /api/companies/{vat}/administered-companies

52 fields

Companies in which this company holds a board mandate (outgoing mandates).

Field	Type	Example	Notes
administeredCompanies[].vat	string	BE1000699312	
administeredCompanies[].name	string	Cross Mediaal Consortium	
administeredRelationships[].mandate	string	Bestuurder	
...representativePerson	object	Bart Gunst	<i>On behalf of the company</i>
activeAdministeredRelationshipCount	int	1	

6. Shareholders

GET /api/companies/{vat}/shareholders

98 fields

Who owns this company? Legal entity shareholders, individual shareholders and consolidation relationships.

6.1 Shareholder (legal entity)

Field	Type	Example	Notes
shareholderCompanies[].name	string	Roularta Media Group	
...interestsHeldDirectlyPercentage	float	0.5	<i>50% of shares</i>
...interestsHeldDirectlyNumber	int	50000	<i>Number of shares</i>
...interestsHeldType	string	Aandelen zonder aanduiding van waarde CAT B	
...NumberVotingRightsAttachedShares	int	50000	<i>Voting rights</i>
...sharesEquity	float	6856328.11	<i>Equity share</i>
...sharesNetResult	float	9194719.21	<i>Result share</i>

6.2 Consolidation Relationships

Field	Type	Example	Notes
parentCompanies[].name	string	DPG Media Services	
parentRelationships[].typ	string	AFFILIATE	
...isParentAccountConsolidated	boolean	true	
...consolidationLevelParent	string	2	<i>Consolidation level</i>

7. Participations

GET /api/companies/{vat}/participations

56 fields

Where does this company invest? Holdings with share percentage, voting rights and history.

Field	Type	Example	Notes
participationCompanies[].name	string	PULSAR - IT	
...financialHealthIndicator	int	6	
...equity	int	-996292	<i>Negative equity</i>
...interestsHeldDirectlyPercentage	float	0.1714	<i>17.14%</i>
...sharesEquity	int	248060	<i>Equity share</i>
activeParticipationRelationshipCount	int	4	

8. Publications (Belgian Official Gazette)

GET /api/companies/{vat}/publications

129 fields per response

All publications in the Belgian Official Gazette (BSP). Articles of association amendments, appointments, dissolutions. Paginated (30 items per page).

Field	Type	Example	Notes
items[].publication.pubid	string	20260308128	<i>Unique publication ID</i>
...publication.language	string	nl	<i>nl / fr</i>
...publication.subject	string	DIVERSEN	<i>Subject</i>
...publication.subjects[]	string[]	Statuten	<i>Categorized</i>
...publication.publicationDate	date	2026-02-03	
...publication.pdfLink	url	https://ejustice...	<i>PDF link</i>
...persons[].nameLabel	string	Xavier BOUCKAERT	
...persons[].roles[]	string[]	ACT	<i>ACT=action, NOT=notary</i>
...organizations[].vat	string	BE0817050004	
page / count	int	0 / 77	<i>Pagination</i>

9. Deal Sourcing Engine

GET /api/entities/advanced-search

40+ filter parameters

Filter the entire Belgian market by financial, structural and governance criteria. All parameters are optional and combinable (AND logic). Results sortable by any financial field.

Parameter	Description & Example
	Pagination & Output
top	Number of results per call (max 100)
export	0 = JSON, 1 = Excel
language	nl / fr
	Search & Entity Type
filter.entity	company / person
filter.nameParts	Name or part of name
filter.searchStrategy	partial (default) / exact
	Financial Filters (min/max ranges, in EUR)
filter.equityMin / Max	Equity
filter.operatingIncomeMin / Max	Revenue
filter.ebitdaMin / Max	EBITDA
filter.grossOperatingMarginMin / Max	Gross operating margin
filter.gainLossPeriodMin / Max	Profit/loss
filter.employeeCountMin / Max	Employees (FTE)
filter.cashBankHandMin / Max	Cash & equivalents
filter.reservesMin / Max	Reserves
filter.profitToBeDistributedMin / Max	Distributable profit
	Geography
filter.provinceCode	1=Brussels, 2=W-Brabant, 3=FI-Brabant, 4=Antwerp, 5=Limburg, 6=Liege, 7=Namur, 8=Hainaut, 9=Luxembourg, 10=W-FI, 11=E-FI
filter.zipCode	Exact postal code
	Sector & Activity
filter.activityCode	NACE 2008/2025 code
filter.activityCategory	onlyMainActivities / allActivities
filter.JointCommitteeCode	Joint committee
	Legal & Time Scope
filter.juridicalFormCode	Legal form: NV, BV, VOF, CV, VZW, ...
filter.juridicalSituationCode	000=Normal, various codes for cessation
filter.activePeriodMin / Max	Format: yyyyMMdd or relative (-5m, -2d, -4w)
	Governance
filter.administratorCountMin / Max	Number of directors
filter.administratorPoliticianCountMin / Max	Number of PEP directors

	Sorting & Portfolio
filter.sortBy	equity, operatingIncome, ebitda, gainLossPeriod, employeeCount, ...
filter.sortByDirection	asc / desc
filter.entityGroupId	Watchlist/portfolio ID (include/exclude)

Appendices

A. Delivery Formats

All endpoints are available via REST API (JSON) and as periodic data files (CSV, Excel or JSON). Field names in data files correspond 1-to-1 with the JSON keys in this document.

B. Available Countries

Belgium: live. Netherlands and UK: roadmap 2026. Data structure is identical per country; sources differ (CBE vs KvK vs Companies House).

C. Completeness

This document describes all fields returned by the API. Fields that are null for the sample company but available for other companies (telephone, email, website) are included. Social balance fields may contain additional categories depending on company type.

D. Source Attribution

All data sourced from public sources: CBE (Crossroads Bank for Enterprises), NBB (National Bank of Belgium, Central Balance Sheet Office), BSP (Belgian Official Gazette), FSMA, and openthebox enrichments (AI activity descriptions, health indicator, Vlerick valuations).