

Package ‘gleifr’

July 18, 2026

Title Client for the 'GLEIF' API

Version 0.2.0

Description Download legal entity reference data from the 'Global Legal Entity Identifier Foundation' ('GLEIF') API. Retrieve Legal Entity Identifier ('LEI') records, their direct and ultimate parent and child relationships, accredited issuers ('Local Operating Units'), and mappings from 'LEI' codes to other identifiers such as 'ISIN', 'BIC', and 'MIC'. See <<https://www.gleif.org/en/lei-data/gleif-api>> for further details.

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URL <https://m-muecke.github.io/gleifr/>,
<https://github.com/m-muecke/gleifr>

BugReports <https://github.com/m-muecke/gleifr/issues>

Depends R (>= 4.1.0)

Imports curl, httr2, stats, utils, xml2

Suggests testthat (>= 3.0.0)

Config/roxygen2/markdown TRUE

Config/roxygen2/version 8.0.0

Config/testthat/edition 3

Encoding UTF-8

NeedsCompilation no

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Repository CRAN

Date/Publication 2026-07-18 15:50:08 UTC

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cache	<i>Get or manage the gleifr API cache</i>
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Description

lei_cache_dir() returns the path where cached API responses are stored. lei_cache_clear() clears all cached responses.

Usage

```
lei_cache_dir()

lei_cache_clear()
```

Details

The cache is only used when enabled with options(gleifr.cache = TRUE). Cached responses are stored for 1 day by default, but this can be customized with options(gleifr.cache_max_age = seconds).

Value

lei_cache_dir() returns a string with the path to the cache directory.

lei_cache_clear() is called for its side effect of clearing the cached responses and returns NULL invisibly.

Examples

```
## Not run:
# enable caching
options(gleifr.cache = TRUE)

# view cache location
lei_cache_dir()

# clear the cache
lei_cache_clear()

## End(Not run)
```

lei_autocomplete	<i>Autocomplete LEI records</i>
------------------	---------------------------------

Description

Performs a prefix-based completion against the GLEIF API, returning candidate values together with their LEI. Useful for typeahead-style lookups. For typo-tolerant matching, see [lei_fuzzy\(\)](#).

Usage

```
lei_autocomplete(q, field = c("fulltext", "owns", "ownedBy"))
```

Arguments

q	(character(1)) The search query.
field	(character(1)) The field to search. One of "fulltext", "owns", or "ownedBy". Default is "fulltext".

Value

A `data.frame()` with columns:

- **value:** The matched value
- **lei:** The Legal Entity Identifier of the matched record, or NA if none is linked

When nothing matches, NULL.

Source

<https://www.gleif.org/en/lei-data/gleif-api>

See Also

[lei_fuzzy\(\)](#) for typo-tolerant matching, [lei_record_by_id\(\)](#) for full records.

Examples

```
lei_autocomplete("Appl")
```

lei_children	<i>Fetch LEI child records</i>
--------------	--------------------------------

Description

Fetches the direct or ultimate child records of a given LEI.

Usage

```
lei_children(id, type = c("direct", "ultimate"), limit = 200L, simplify = TRUE)
```

Arguments

id	(character(1)) The Legal Entity Identifier (LEI) to fetch the children for.
type	(character(1)) The type of children to fetch. One of "direct" or "ultimate". Default is "direct".
limit	(NULL integer(1)) Maximum number of records to return. Default 200L. Use NULL to fetch all.
simplify	(logical(1)) Should the output be simplified? Default TRUE.

Value

When simplify = TRUE, a long-format data.frame() with columns:

- **lei**: The Legal Entity Identifier
- **name**: The attribute name
- **value**: The attribute value

When simplify = FALSE, a named list() containing the raw API response.

When simplify = TRUE and no records match, NULL.

See Also

[lei_parent\(\)](#) to fetch the parent record of a LEI.

Examples

```
# get direct children
head(lei_children("02RNE8IBXP4R0TD8PU41", limit = 5))

# get ultimate children
head(lei_children("02RNE8IBXP4R0TD8PU41", type = "ultimate", limit = 5))
```

lei_countries	<i>Fetch the list of countries</i>
---------------	------------------------------------

Description

Fetches the list of countries (ISO 3166-1) recognized by the GLEIF API.

Usage

```
lei_countries()
```

Value

A `data.frame()` with columns:

- **code**: The country code
- **name**: The country name

Examples

```
head(lei_countries())
```

lei_fuzzy	<i>Fuzzy search for LEI records</i>
-----------	-------------------------------------

Description

Performs a typo-tolerant, approximate search against the GLEIF API. Unlike the filters in [lei_records\(\)](#), which match literal substrings, this matches on edit distance and returns candidate values together with their LEI. Useful for resolving messy or misspelled entity names to a LEI, which can then be passed to [lei_record_by_id\(\)](#).

Usage

```
lei_fuzzy(q, field = c("fulltext", "entity.legalName", "owns", "ownedBy"))
```

Arguments

q	(character(1)) The search query.
field	(character(1)) The field to search. One of "fulltext", "entity.legalName", "owns", or "ownedBy". Default is "fulltext".

Value

A data.frame() with columns:

- **value**: The matched value
- **lei**: The Legal Entity Identifier of the matched record, or NA if none is linked

When nothing matches, NULL.

Source

<https://www.gleif.org/en/lei-data/gleif-api>

See Also

[lei_autocomplete\(\)](#) for prefix-based completion, [lei_record_by_id\(\)](#) for full records.

Examples

```
lei_fuzzy("Deutsch Bank", field = "entity.legalName")
```

lei_isins	<i>Fetch ISINs for a LEI</i>
-----------	------------------------------

Description

Fetches the ISINs associated with a given LEI.

Usage

```
lei_isins(id, limit = 200L)
```

Arguments

id	(character(1)) The Legal Entity Identifier (LEI) to fetch ISINs for.
limit	(NULL integer(1)) Maximum number of records to return. Default 200L. Use NULL to fetch all.

Value

A `data.frame()` with columns:

- **lei**: The Legal Entity Identifier
- **isin**: The ISIN

When the LEI has no ISINs, `NULL`.

Examples

```
head(lei_isins("529900W18LQJJN6SJ336", limit = 10))
```

`lei_issuers`*Fetch LEI issuers*

Description

Fetches the list of LEI issuers (Local Operating Units) from the GLEIF API.

Usage

```
lei_issuers()
```

Value

A `data.frame()` with columns:

- **lei**: The Legal Entity Identifier of the issuer
- **name**: The issuer name
- **marketing_name**: The marketing name
- **website**: The issuer website
- **accreditation_date**: The accreditation date

Examples

```
head(lei_issuers())
```

lei_jurisdictions	<i>Fetch the list of jurisdictions</i>
-------------------	--

Description

Fetches the list of jurisdictions (countries and their subdivisions) recognized by the GLEIF API.

Usage

```
lei_jurisdictions()
```

Value

A `data.frame()` with columns:

- **code**: The jurisdiction code
- **name**: The jurisdiction name

Examples

```
head(lei_jurisdictions())
```

lei_legal_forms	<i>Fetch the list of entity legal forms</i>
-----------------	---

Description

Fetches the list of entity legal forms (ELF codes) recognized by the GLEIF API. These resolve the legal form codes that appear in [lei_record_by_id\(\)](#) output to human-readable names.

Usage

```
lei_legal_forms()
```

Value

A `data.frame()` with columns:

- **code**: The entity legal form (ELF) code
- **country**: The country the legal form applies to
- **country_code**: The country code
- **status**: The status of the legal form, e.g. "ACTV"
- **name**: The local name of the legal form
- **language**: The language of the name

Examples

```
head(lei_legal_forms())
```

lei_mapping*Download the latest LEI mapping data*

Description

Download the latest Legal Entity Identifier (LEI) mapping data from the Global Legal Entity Identifier Foundation (GLEIF).

Usage

```
lei_mapping(type = c("isin", "bic", "mic", "oc"))
```

Arguments

type	(character(1)) The type of mapping data to download. One of "isin", "bic", "mic", or "oc". Default is "isin".
------	---

Value

A `data.frame()` with the lei and the corresponding mapping.

Source

<https://www.gleif.org/en/lei-data/lei-mapping>

Examples

```
head(lei_mapping("isin"))
```

lei_modifications	<i>Fetch the change history of a LEI record</i>
-------------------	---

Description

Fetches the field-level modification history of a given LEI, i.e. an audit log of every recorded change to the entity (recordType "LEI") and its relationships (recordType "RR").

Usage

```
lei_modifications(id, limit = 200L)
```

Arguments

id	(character(1)) The Legal Entity Identifier (LEI) to fetch the change history for.
limit	(NULL integer(1)) Maximum number of records to return. Default 200L. Use NULL to fetch all.

Value

A data.frame() with columns:

- **lei**: The Legal Entity Identifier
- **record_type**: The record the change applies to, "LEI" or "RR"
- **modification_type**: The type of change, e.g. "UPDATE"
- **field**: The path of the changed field
- **date**: The date of the change
- **value_old**: The previous value, or NA if none
- **value_new**: The new value, or NA if none

When the LEI has no modifications, NULL.

Source

<https://www.gleif.org/en/lei-data/gleif-api>

Examples

```
head(lei_modifications("529900W18LQJJN6SJ336", limit = 10))
```

lei_parent	<i>Fetch a LEI parent record</i>
------------	----------------------------------

Description

Fetches the direct or ultimate parent record of a given LEI.

Usage

```
lei_parent(id, type = c("direct", "ultimate"), simplify = TRUE)
```

Arguments

id	(character(1)) The Legal Entity Identifier (LEI) to fetch the parent for.
type	(character(1)) The type of parent to fetch. One of "direct" or "ultimate". Default is "direct".
simplify	(logical(1)) Should the output be simplified? Default TRUE.

Value

When `simplify = TRUE`, a long-format `data.frame()` with columns:

- **lei**: The Legal Entity Identifier
- **name**: The attribute name
- **value**: The attribute value

When `simplify = FALSE`, a named `list()` containing the raw API response.

See Also

[lei_children\(\)](#) to fetch the child records of a LEI.

Examples

```
# get direct parent
head(lei_parent("529900W18LQJN6SJ336"))

# get ultimate parent
head(lei_parent("529900W18LQJN6SJ336", type = "ultimate"))
```

lei_records	<i>Fetch LEI records</i>
-------------	--------------------------

Description

Fetch LEI records from the GLEIF database, optionally filtered by attribute. The filters are combined with logical AND, so each one you supply narrows the results further. To fetch a single record by its LEI, see [lei_record_by_id\(\)](#).

Usage

```
lei_records(  
  legal_name = NULL,  
  fulltext = NULL,  
  country = NULL,  
  jurisdiction = NULL,  
  registration_status = NULL,  
  entity_status = NULL,  
  category = NULL,  
  isin = NULL,  
  ...,  
  limit = 200L,  
  simplify = TRUE  
)
```

Arguments

legal_name	(NULL character(1)) Filter by legal name.
fulltext	(NULL character(1)) Full-text search query.
country	(NULL character(1)) Filter by legal address country (ISO 3166-1 alpha-2 code), e.g. "DE".
jurisdiction	(NULL character(1)) Filter by jurisdiction (ISO 3166-1 alpha-2 code), e.g. "DE".
registration_status	(NULL character(1)) Filter by LEI registration status, e.g. "ISSUED" or "LAPSED".
entity_status	(NULL character(1)) Filter by entity status, one of "ACTIVE" or "INACTIVE".
category	(NULL character(1)) Filter by entity category, e.g. "FUND", "BRANCH", or "GENERAL".
isin	(NULL character(1)) Filter by ISIN.

...	Additional filter parameters passed to the GLEIF API. These are appended as query parameters, e.g. "filter[entity.subCategory]" = "CENTRAL_GOVERNMENT".
limit	(NULL integer(1)) Maximum number of records to return. Default 200L. Use NULL to fetch all matching records.
simplify	(logical(1)) Should the output be simplified? Default TRUE.

Value

When simplify = TRUE, a long-format data.frame() with columns:

- **lei**: The Legal Entity Identifier
- **name**: The attribute name
- **value**: The attribute value

When simplify = FALSE, a list() of the raw record objects from the API.

When simplify = TRUE and no records match, NULL.

See Also

[lei_record_by_id\(\)](#) to fetch a single record by its LEI.

Examples

```
# search by legal name
head(lei_records(legal_name = "Deutsche Bank", limit = 5))

# filter by country and registration status
head(lei_records(country = "DE", registration_status = "ISSUED", limit = 5))
```

lei_record_by_id	<i>Fetch a LEI record</i>
------------------	---------------------------

Description

Fetch a single LEI record by its Legal Entity Identifier. To fetch records by attribute filters, see [lei_records\(\)](#).

Usage

```
lei_record_by_id(id, simplify = TRUE)
```

Arguments

- id (character(1))
The Legal Entity Identifier (LEI) to fetch.
- simplify (logical(1))
Should the output be simplified? Default TRUE.

Value

When simplify = TRUE, a long-format data.frame() with columns:

- lei: The Legal Entity Identifier
- name: The attribute name
- value: The attribute value

When simplify = FALSE, a named list() containing the raw API response.

See Also

[lei_records\(\)](#) to fetch records by attribute filters.

Examples

```
# get simplified long-format data.frame
head(lei_record_by_id("529900W18LQJN6SJ336"))

# get raw API response as named list
str(lei_record_by_id("529900W18LQJN6SJ336", simplify = FALSE), max.level = 2)
```

lei_regions	Fetch LEI regions
-------------	-------------------

Description

Fetches the list of regions from the GLEIF API.

Usage

```
lei_regions()
```

Value

A data.frame() with columns:

- code: The region code
- language: The language of the region name
- name: The region name

Examples

```
head(lei_regions())
```

```
lei_registration_authorities
```

Fetch the list of registration authorities

Description

Fetches the list of registration authorities (RA codes) recognized by the GLEIF API. These resolve the registration authority codes that appear in [lei_record_by_id\(\)](#) output to the issuing business registries.

Usage

```
lei_registration_authorities()
```

Value

A `data.frame()` with columns:

- **code**: The registration authority (RA) code
- **international_name**: The international name of the authority
- **local_name**: The local name of the authority, or NA if none
- **website**: The authority website, or NA if none

Examples

```
head(lei_registration_authorities())
```

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