1 About 3
Warning: This is an old version of the data standard. See latest version.

This is a stub documentation site for the alpha version of the Beneficial Ownership Data Standard.
CHAPTER 1

About

This work is taking place under the auspices of the Open Ownership project. More details on the project are available at http://www.openownership.org

The work is guided by the Data Standard Working Group, and the initial phase of development is taking place between December 2016 and March 2017.

Attention: This documentation site is a work in progress. A draft schema is ready for review on the schema page.

1.1 Contents

1.1.1 Conformance and validation

Warning: This is an old version of the data standard. See latest version.

Conformance statement

- A conforming implementation may use only a subset of this specification’s terms.
- It must not use terms from outside this specification’s terms where this specification’s terms would suffice.
- It may use terms from outside this specification’s terms where this specification’s terms are insufficient.
- Its usage of this specification’s terms must be consistent with the semantics of those terms.
- If an implementation serializes to JSON, its serializations must validate against this specification’s JSON Schema.

(Statement adapted from Popolo Project specification)
Extending the schema

Publishers providing additional properties in their implementations are encouraged to document these in the project issue tracker with the ‘extensions’ tag, and to re-use other publisher’s extensions where possible.

Validation

There is no public validator available for the beta release.

The current schema includes minimal validation requirements, and should be treated as a guide to data structure, rather than a full validation schema.

1.1.2 Credits (stub)

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Credits for the project will be included here.

1.1.3 Examples

| Warning: This is an old version of the data standard. See latest version. |

Examples will be given here shortly.

1.1.4 Governance (stub)

| Warning: This is an old version of the data standard. See latest version. |

The governance arrangements for the standard will be documented here.

1.1.5 Identifiers

| Warning: This is an old version of the data standard. See latest version. |

Statement ids

Each statement must have a unique id. This id must be globally unique: such that no two statements from the same organisation, or from different organisations, could ever have the same identifier.

Once published, statements must be immutable. This means any time the underlying record changes, a new statement id should be generated.

Suggested strategies for assigning ids to statements include:
• Generating a UUID for each statement, storing this in internal systems, and updating it whenever the relevant record(s) that make up a statement are updated;
• Generating a UUID as a prefix, and appending a local record identifier, and version identifier to it;
• Assigning a URI in a domain controlled by the publisher to each statement.

Whilst the schema is agnostic as to the exact strategy that data publishers use to generate statement ids, it enforces a minimum length of 32 characters (the length of a hexadecimal UUID) in order to avoid use of ids that are likely to fail a uniqueness test.

Identifying people, companies and other entities

To create a link between statements, and the real-world organisations and people they relate to, statements may include a range of identifying information. We use a common identifier object, with two required properties, and one optional property.

• **scheme** must be a value from a codelist of known identifier sources. Separate codelists exist for entities and persons.
• **id** must be the value assigned to the relevant entity or person in that scheme; **uri** may be used to provide a canonical URI from this scheme.

For example, if a source system holds:

• A registered company number; and
• A VAT number;

for a company, two entries could be created in the `entities.identifiers` array, as in the example below:

```
[
  {
    "scheme": "GB-COH",
    "id": "012345678"
  },
  {
    "scheme": "GB-VAT",
    "id": "65251235"
  }
]
```

**Entity Identifiers**

The values for scheme within an entity statement identifier should be drawn from the http://org-id.guide codelist. Where the publisher is providing an internal identifier, the publisher should either:

• Publish their full list of internal identifiers, and register this list with the http://org-id.guide codelist; or
• Use MISC-{Publisher_Name} as the scheme

**Person Identifiers**

The values for scheme within a person statement should be based on the following pattern:

{JURISDICTION}-{TYPE}
Where jurisdiction is expressed using the extended ISO 3-digit country codes list proposed by in ICAO Document 9303 §5 (pages 22-29).

For example, a passport number from Afghanistan would have the scheme:

AFG-PASSPORT-{NUMBER}

Where the publisher is providing an internal identifier, these should use ‘MISC-{Publisher_Name}’ as the scheme.

**Warning:** When using BODS to provide open data, it is important to ensure any person identifiers are suitable for publication under national laws and data protection frameworks.

Most of the identifier types listed below are not suitable for publication as part of an open dataset.

The following identification types are currently documented. Suggestions for new types should be made through the issue tracker.

**PASSPORT**

Passport numbers should follow the format of the identifier (second) line in a machine-readable passport (see Appendix B to Part 4 of ICAO Doc 9303) including at least the document number.

Parsers should be able to extract the document number from the first 9 characters, and to access any subsequent information supplied according to the ICAO format.

**IDCARD**

Country ID card systems vary. Where specific guidance on including numbers from a particular jurisdiction is required, this may be included here.

### 1.1.6 Overview (stub)

**Warning:** This is an old version of the data standard. See latest version.

The beneficial ownership data standard will be made up of two parts:

- A data schema that sets out how beneficial ownership data MUST or SHOULD be formatted for interoperability, and that describes the fields of data that systems MUST or SHOULD provide.
- A set of implementation recommendations that describe the way in which beneficial ownership data SHOULD be collected and published.

MUST and SHOULD are used as defined by RFC2119.

This documentation currently contains a draft of the schema, with some initial (though non-exhaustive) implementation recommendations.

**Scope**

- The standard is concerned with relationships of ownership and control
The schema will describe relationships between a legal entity such as a company, trust, partnership, or person acting as a nominee, and a natural person. These may be direct relationships, or may be indirect through intermediate legal entities.

Ownership is understood as “the right to receive profits, income, interest, etc. from a property or investment” (NOTE: Definition of “beneficial ownership” from the Cambridge Business English Dictionary) and may operate through a range of mechanisms, including share ownership and contractual rights.

The standard does not set any threshold on levels of shareholding or rights required in order to beneficial ownership to be present, leaving this decision to individual implementers. i.e. it will be possible to represent shareholdings of 0.1% or less using the standard, but individual implementers may choose to set thresholds for the levels of ownership they will require before they collect, produce or consume such data.

Control is understood as the ability to direct or influence the actions of a legal entity, and may operate through a range of mechanisms, including, but not limited to, ownership of shares with voting rights, or contractual agreements.

As with ownership, the standard does not set any threshold on levels of control that can be represented.

We use the concept of beneficial ownership to cover both ownership (economic benefit) and control.

Relationships of ownership and control may be direct, indirect, operating through intermediate entities, or may be declared as ultimate beneficial ownership, without information on whether the relationship is direct or indirect.

In cases of indirect relationships, the schema will support inclusion of the intermediate relationships between legal entities. E.g. information on company ownership structures will be captured within the scope of the standard. The implementation guidance will recommend that this information is collected and published wherever possible.

In order to allow clear identification of beneficial owners the schema will provide means of describing attributes of natural persons, including, but not limited to, their name, nationality, country of residence, date of birth, and any public identification numbers.

Where particular information cannot be published for legal or privacy reasons, the implementation guidance will recommend placeholder entries are published, with reasons for non-publication or redaction clearly explained using the schema.

The schema does not seek to provide globally unique identifiers to natural persons or legal entities, though it will allow reuse of existing identifiers. Consuming applications will be required to perform their own matching and deduplication on both legal entity and natural person components where their use-cases require this.

In order to allow clear identification of the entities owned or controlled, or involved in indirect ownership and control chains, the schema will provide means of describing the attributes of legal entities, including the nature of the entity, names, addresses and registration details.

Complex arrangements, such as trusts, consortia, and individuals acting as a nominee for another, will be included within the definition of a legal entity.

The schema will incorporate provenance information for ownership and control statements, and for descriptions of legal entities and natural persons. This will include links to documents that provide evidence for statements made. Such documents will need to be stored externally.

The schema is intended for exchange of open data. Data publishers and consumers will need to independently consider the legal regime around the publication or use of any personally identifying information covered by the standard.

The implementation guidance will describe how to provide bulk data and API access to aggregated beneficial ownership information. It will not describe advanced API patterns such as querying, or retrieval of a sub-set of all records (with the exception of fetching all records changed since a given date).
1.1.7 Provenance Information

**Warning:** This is an old version of the data standard. See latest version.

**Note:** This page provide work-in-progress background documentation on the provenance approach taken in the standard.

### Design considerations

It is important to have access to provenance information about each of the statements made as part of a beneficial ownership disclosure.

Provenance information may be used in a number of ways, including:

- Identifying the source of information, and how it can be corrected;
- Deciding whether or not to trust a particular source of information;
- Signposting the documentary evidence on which data is based;
- Describing the ways in which data has been modified by source systems;

Any particular statement of provenance may have a range of scopes, including:

- **All the statements in a particular file.** For example, to describe that the statements were downloaded from the OpenOwnership.org database;
- **A group of statements.** For example, to describe the individual responsible for submitting information about a particular set of statements describing ownership of a single firm.
- **A single beneficial ownership statement** - made up of entity, person and qualification statements. For example, to describe the point at which disclosure was made, and the steps taken to verify the information.
- **A single person statement.** For example, to describe how the information was obtained, and to link to any supporting documentation or verification of identification.

These scopes are nested. For example, a person statement might be referenced within a beneficial ownership statement, within a group of statements, and within a particular file - and the provenance information from each of these scopes should be taken to apply to that person statement.

### Modelling

Following the PROV-DM Provenance Data Model we model provenance in terms of Activities, Entities and Agents.

A collection of statements, a beneficial ownership statement, and the individual statements that make this up are all considered to be entities.

Each entity was derived from some source (also, in PROV-DM terms, an entity).

This source will have been generated by some activity, such as:

- A self-declaration by an individual agent;
- Extraction of information from an existing register;
- Primary research using public documents or news sources;
- Verification of identity using official documentation;
For each source there will be at least one associated agent who was involved, such as:
  - The person filling in the form;
  - The researcher compiling documentation; or
  - The organisation responsible for validating documents.

An source may, itself, be derived from some other source as it’s input. For example, when a validation process draws upon documents originally submitted by an individual.

**Provenance block**

The provenance building block of the schema can be attached at the statementGroup, beneficialOwnershipStatement or individual entity, person and qualification statement levels.

Provenance statements can also be chained together using the derivedFrom property.

In PROV-DM terms, all the properties within a provenance block attach to the statement they are nested within (i.e. asserting that this statement wasAttributedTo or wasGeneratedBy).

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>See ID</td>
<td>Object</td>
</tr>
<tr>
<td>type</td>
<td>Source type: What kind of source is this? [ToDo: Identify an appropriate codelist for this field]</td>
<td>string</td>
</tr>
<tr>
<td>attributedTo</td>
<td>Attributed to: Which agent (individual, organisation or software process) was responsible for directly contributing this source. See attributedTo</td>
<td>Object</td>
</tr>
<tr>
<td>generatedBy</td>
<td>Generated by: Which activity led to the creation of this source? See generatedBy</td>
<td>Object</td>
</tr>
<tr>
<td>primarySource</td>
<td>Primary source: A link to a primary source. This may be a resolvable URI, or some other identifier for the source.</td>
<td>uri</td>
</tr>
<tr>
<td>derivedFrom</td>
<td>Derived from: If this source was derived from a prior source either provide the identifier of a provenanceStatement about that prior source, or nest the provenance statement here.</td>
<td>string</td>
</tr>
<tr>
<td>replacesStatement</td>
<td>See ReplacesStatement</td>
<td>Object</td>
</tr>
</tbody>
</table>

**Note:** How should applications interpret the nesting of provenance information?

For example: does a provenanceStatement attached to a statementGroup apply to all the statements within that group?
1.1.8 Schema

Warning: This is an old version of the data standard. See latest version.

The beneficial ownership standard is made up of two parts:

- A data schema that sets out how beneficial ownership data MUST or SHOULD be formatted for interoperability, and that describes the fields of data that systems MUST or SHOULD provide.

- A set of implementation recommendations that describe the way in which beneficial ownership data SHOULD be collected and published.

Attention: This is the first rough draft of the schema. It is a living document, and undergoing constant updates. It currently contains a draft structure and fields but does not yet specify any constraints or explicit required fields. Comments are inviting using hypothes.is annotations (see sidebar on right-hand side), or GitHub issues (https://github.com/openownership/data-standard/issues/) before 20th March.

Conceptual model

The conceptual model for the standard was developed in late 2016/early 2017 and is documented here.

We model information on beneficial ownership in terms of a collection of statements. Each statement represents the assertions made by a particular agent at a particular point in time.

It is up to data consumers to decide which statements to trust, and to reconcile the identity of the entities and persons described in those statements based on the identifying information contained within each statement.

This abstraction is important to represent the reality of how data is provided, to support integration of data from different systems and bi-temporal modelling, and to recognise that any dataset may contain overlapping or conflicting claims about ownership and control that need to be resolved in application specific ways.

Schema browser

The draft Beneficial Ownership Data Standard is defined using JSON Schema 0.4. The structured schema can be accessed on GitHub or explored using the viewer below.

Serializations

We have currently modelled the schema with the option for:

- (1) Entity, person and provenance statements to be nested inside a beneficial ownership statement;
- (2) Each kind of statement to be provided at the same level of hierarchy, with a cross-reference between them;

This second option is sketched out with a view of serialisations that may make use of the JSON Lines format for sharing or streaming large quantities of statements, rather than enclosing all statements to be exchanged in a single object.

Sections

The following tables are generated from the schema, and outline the different components of the data model.
Statement Groups

At the top level of any structured file is always an array of statementGroups.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>statementGroups</td>
<td>Statement group: A statement group is used to collect together statements relating to a particular disclosure, company or individual. Statement groups are a logical grouping designed to limit duplication of provenance information, and bring together statements that contain cross references. Where statements in a statementGroup cross-references to other statements, those statements MUST also be contained within the group. See statementGroups</td>
<td>Object</td>
</tr>
</tbody>
</table>

Each statementGroup MUST include an array of one or more beneficialOwnershipStatements and, where a cross-reference publication pattern is followed, may include arrays of other statements.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>statementGroups</td>
<td>Statement group: A statement group is used to collect together statements relating to a particular disclosure, company or individual. Statement groups are a logical grouping designed to limit duplication of provenance information, and bring together statements that contain cross references. Where statements in a statementGroup cross-references to other statements, those statements MUST also be contained within the group. See statementGroups</td>
<td>Object</td>
</tr>
</tbody>
</table>

BeneficialOwnershipStatement

A beneficial ownership statement is made up of statements about an entity, an interestedParty (either an entity, a person or null party), and details of the interest. Additionally, annotations on the interest, provenance and versioning information can be provided.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>See ID</td>
<td>Object</td>
</tr>
<tr>
<td>date</td>
<td>See StatementDate</td>
<td>Object</td>
</tr>
<tr>
<td>entity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>interestedParty</td>
<td></td>
<td></td>
</tr>
<tr>
<td>interests</td>
<td>Interests: A description of the interests held by the interestedParty covered by this statement in the entity covered by this statement. See Interest section for further details.</td>
<td>Object</td>
</tr>
<tr>
<td>provenance</td>
<td></td>
<td>Array</td>
</tr>
<tr>
<td>replacesStatement</td>
<td>See ReplacesStatement</td>
<td>Object</td>
</tr>
</tbody>
</table>
**Beneficial Ownership Data Standard (alpha) Documentation, Release 0.1**

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### Interest

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>Type of interest: A codelist value indicating the nature of the interest.</td>
<td>string</td>
</tr>
<tr>
<td>interestLevel</td>
<td>Interest level: Is this interest held directly or indirectly?</td>
<td>string</td>
</tr>
<tr>
<td>details</td>
<td>Details: This field may be used to provide the local name given to this kind of interest, or any further semi-structured or unstructured information to clarify the nature of the interest held.</td>
<td>string</td>
</tr>
<tr>
<td>share</td>
<td>Percentage share: Where an exact percentage is available, this should be given, and maximum and minimum values set to the same as the exact percentage. Otherwise, maximum and minimum can be used to record the range into which the share of this kind of interest falls. See share</td>
<td>Object</td>
</tr>
<tr>
<td>start-Date</td>
<td>State date: When did this interest first occur. Please provide as precise a date as possible in ISO 8601 format. When only the year or year and month is known, these can be given as YYYY or YYYY-MM.</td>
<td>string</td>
</tr>
<tr>
<td>end-Date</td>
<td>End date: When did this interest cease. Please provide as precise a date as possible in ISO 8601 format. When only the year or year and month is known, these can be given as YYYY or YYYY-MM.</td>
<td>string</td>
</tr>
<tr>
<td>annotations</td>
<td>Annotations: Any further details to qualify this interest. See Annotation section for further details.</td>
<td>Object Array</td>
</tr>
</tbody>
</table>

### Share

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>exact</td>
<td>Exact share: The exact share of this interest held (where available).</td>
<td>number</td>
</tr>
<tr>
<td>maximum</td>
<td>Maximum share: The upper bound of the share of this interest known to be held.</td>
<td>number</td>
</tr>
<tr>
<td>minimum</td>
<td>Minimum share: The lower bound of the share of this interest known to be held.</td>
<td>number</td>
</tr>
<tr>
<td>exclusiveMinimum</td>
<td>Exclusive minimum: If exclusiveMinimum is true, then the share is at least greater than the minimum value given. E.g. if minimum is 25, the share is at least 25.1, and not simply 25.</td>
<td>boolean</td>
</tr>
<tr>
<td>exclusive-Maximum</td>
<td>Exclusive maximum: If exclusiveMaximum is true, then the share is at least less than the maximum value given. E.g. if maximum is 50, the share is less than 49.999, and not simply 50.</td>
<td>boolean</td>
</tr>
</tbody>
</table>

### Annotation

The annotation property currently allows for an array of simply annotation objects. This is a placeholder which could be extended in future to include structured information qualifying the nature of the interest held.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>description</td>
<td>Description: A free-text description to annotate this interest.</td>
<td>string</td>
</tr>
</tbody>
</table>
## EntityStatement

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>See ID</td>
<td>Object</td>
</tr>
<tr>
<td>type</td>
<td>Type: What kind of entity is this? The ‘registeredEntity’ code covers any legal entity created through an act of official registration, usually resulting in an identifier being assigned to the entity. The ‘legalEntity’ code covers other bodies with distinct legal personality (government departments, international institutions etc.). The ‘arrangement’ code covers artificial entities, described in the data model for the purpose of associating one or more natural or legal persons together in an ownership or control relationship, but without implying that the parties to this arrangement have any other form of collective legal identity.</td>
<td>string</td>
</tr>
<tr>
<td>date</td>
<td>See StatementDate</td>
<td>Object</td>
</tr>
<tr>
<td>name</td>
<td>Name: The declared name of this entity.</td>
<td>string</td>
</tr>
<tr>
<td>jurisdiction</td>
<td>Jurisdiction: The jurisdiction in which this entity is registered, expressed using an ISO ISO_3166-2 2-Digit country code, or ISO_3166-2 sub-division code, where the sub-division in question (e.g. a sub-national state or region) has relevant jurisdiction over the registration of operation of this entity.</td>
<td>string</td>
</tr>
<tr>
<td>identifiers</td>
<td>Identifiers: One or more official identifiers for this entity. Where available, official registration numbers should be provided. See Identifier section for further details.</td>
<td>Object Array</td>
</tr>
<tr>
<td>foundingDate</td>
<td>Created date: When was this entity founded, created or registered. Please provide as precise a date as possible in ISO 8601 format. When only the year or year and month is known, these can be given as YYYY or YYYY-MM.</td>
<td>string</td>
</tr>
<tr>
<td>dissolutionDate</td>
<td>End date: If this entity is no longer active, provide the date on which it was dissolved or ceased. Please provide as precise a date as possible in ISO 8601 format. When only the year or year and month is known, these can be given as YYYY or YYYY-MM.</td>
<td>string</td>
</tr>
<tr>
<td>addresses</td>
<td>Addresses: One or more addresses for this entity. See Address section for further details.</td>
<td>Object Array</td>
</tr>
<tr>
<td>uri</td>
<td>URI: Where a persistent URI is available for this entity this should be included.</td>
<td>uri</td>
</tr>
<tr>
<td>provenance</td>
<td></td>
<td>string</td>
</tr>
<tr>
<td>replacesStatement</td>
<td>See ReplacesStatement</td>
<td>Object</td>
</tr>
</tbody>
</table>
## PersonStatement

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>See ID</td>
<td>Object</td>
</tr>
<tr>
<td>date</td>
<td>See StatementDate</td>
<td>Object</td>
</tr>
<tr>
<td>type</td>
<td>Type: The ultimate beneficial owner of a legal entity is always a natural person. Where the beneficial owner has been identified, by information about them cannot be disclosed, use ‘anonymousPerson’. Where the beneficial owner has not been clearly identified, use ‘unknownPerson’.</td>
<td>string</td>
</tr>
<tr>
<td>missing-InfoReason</td>
<td>Missing information reason(s): For PersonStatement’s with the type ‘anonymousPerson’ or ‘unknownPerson’ this field should contain an explanation of the reason that detailed information on the person is not provided. This may be a standard descriptive phrase from the source system, or a free-text justification.</td>
<td>string</td>
</tr>
<tr>
<td>name</td>
<td>Name: The full name of this person.</td>
<td>string</td>
</tr>
<tr>
<td>alternate-Names</td>
<td>Alternate names: Other known names for this individual. See AlternateName section for further details.</td>
<td>Object</td>
</tr>
<tr>
<td>identifiers</td>
<td>Identifiers: One or more official identifiers for this person. Where available, official registration numbers should be provided. See Identifier section for further details.</td>
<td>Object</td>
</tr>
<tr>
<td>nationalities</td>
<td>Nationality: An array of ISO 2-Digit country codes representing nationalities held by this individual.</td>
<td>Array</td>
</tr>
<tr>
<td>place-OfResidence</td>
<td>See Address</td>
<td>Object</td>
</tr>
<tr>
<td>placeOf-Birth</td>
<td>See Address</td>
<td>Object</td>
</tr>
<tr>
<td>birthDate</td>
<td>Created date: The date of birth for this individual. Please provide as precise a date as possible in ISO 8601 format. When only the year or year and month is known, these can be given as YYYY or YYYY-MM.</td>
<td>string</td>
</tr>
<tr>
<td>deathDate</td>
<td>End date: If this individual is no longer alive, provide their date of death. Please provide as precise a date as possible in ISO 8601 format. When only the year or year and month is known, these can be given as YYYY or YYYY-MM.</td>
<td>string</td>
</tr>
<tr>
<td>addresses</td>
<td>Addresses: One or more addresses for this entity. See Address section for further details.</td>
<td>Object</td>
</tr>
<tr>
<td>provenance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>replacesStatement</td>
<td>See ReplacesStatement</td>
<td>Object</td>
</tr>
</tbody>
</table>
AlternateName

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>Type: What kind of alternative name is this? Select from ‘translation’, ‘formerName’, ‘birth’, and ‘alias’.</td>
<td>string</td>
</tr>
<tr>
<td>fullName</td>
<td>Full name: The full name contains the complete name of a person as one string.</td>
<td>string</td>
</tr>
<tr>
<td>family-Name</td>
<td>Family name: A family name is usually shared by members of a family. This attribute also carries prefixes or suffixes which are part of the Family Name, e.g. ‘de Boer’, ‘van de Putte’, ‘von und zu Orlow’. Multiple family names, such as are commonly found in Hispanic countries, are recorded in the single Family Name field so that, for example, Miguel de Cervantes Saavedra’s Family Name would be recorded as ‘Cervantes Saavedra.’</td>
<td>string</td>
</tr>
<tr>
<td>given-Name</td>
<td>Given names: A given name, or multiple given names, are the denominator(s) that identify an individual within a family. These are given to a person by his or her parents at birth or may be legally recognised as ‘given names’ through a formal process. All given names are ordered in one field so that, for example, the given name for Johan Sebastian Bach is ‘Johan Sebastian.’</td>
<td>string</td>
</tr>
<tr>
<td>patronymic-Name</td>
<td>Patronymic Name: Patronymic names are important in some countries. Iceland does not have a concept of family name in the way that many other European countries do, for example. In Bulgaria and Russia, patronymic names are in every day usage, for example, the ‘Sergeyevich’ in ‘Mikhail Sergeyevich Gorbachev’</td>
<td>string</td>
</tr>
</tbody>
</table>

Null party

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>Null type: Why can’t a beneficial owner be specified?</td>
<td>string</td>
</tr>
<tr>
<td>description</td>
<td>Description: Any supporting information about the absence of a confirmed beneficial owner. This field may be used to provide set phrases from a source system, or for a free-text explanation.</td>
<td>string</td>
</tr>
</tbody>
</table>

ProvenanceStatement

See the provenance pages for a discussion of provenance modelling.
### Field Name | Description | Format
---|---|---
id | See ID | Object

**Type**

Source type: What kind of source is this? [ToDo: Identify an appropriate codelist for this field]

attributedTo | Attributed to: Which agent (individual, organisation or software process) was responsible for directly contributing this source. See attributedTo | Object

generatedBy | Generated by: Which activity led to the creation of this source? See generatedBy | Object

primarySource | Primary source: A link to a primary source. This may be a resolvable URI, or some other identifier for the source. | uri string

derivedFrom | Derived from: If this source was derived from a prior source either provide the identifier of a provenanceStatement about that prior source, or nest the provenance statement here. | Object

replacesStatement | See ReplacesStatement | Object

---

### StatementReference

| Field Name | Description | Format
---|---|---

id | ID: The identifier of the statement being referenced. | string

uri | URI: A persistent URI for the statement being referenced. | uri string

---

### Common components

The following components are used at a number of points in the schema

### Address

| Field Name | Description | Format
---|---|---
type | Type: What type of address is this? | string

address | Address: The address, with each line or component of the address separated by a line-break or comma. This field may also include the postal code. | string

postcode | Postcode: The postal code for this address. | string

country | Country: The ISO 2-Digit county code for this address. | string
Identifier

The identifier component is used to connect a statement to the person or entity that it refers to, using one or more existing known identifiers.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>ID: The identifier for this entity as provided in the declared scheme.</td>
<td>string</td>
</tr>
<tr>
<td>scheme</td>
<td>Scheme: For entity statements, the scheme should be a entry from the org-id.guide codelist. For person statements, recognised values include ‘passport’, ‘internal’ and ‘id-card’.</td>
<td>string</td>
</tr>
<tr>
<td>uri</td>
<td>URI: Where this identifier has a canonical URI this may be included</td>
<td>uri string</td>
</tr>
</tbody>
</table>

Date

See https://github.com/openownership/data-standard/issues/12 for a discussion of handling fuzzy dates.

Our current schema uses a regular expression to allow YYYY, YYYY-MM, YYYY-MM-DD or full datetimes.

ID

Publishers MUST generate globally unique and persistent identifiers for each statement.

These SHOULD start with a uuid to avoid any clash between identifiers from different publishers, and MAY be suffixed with additional characters to distinguish versions of a statement as required by local implementations.

In many implementation scenarios, it will be appropriate to simply generate a distinct uuid for each statement.

Publication and use considerations

This section outlines considerations for publishers and consumers of the data

Immutability of statements

Statements are considered immutable. If a field is updated, this should be considered to create a new statement, with a new identifier.

Updating statements

Where a statementGroup or statement replaces a previous statement this should be explicitly declared using a replacesStatementGroup or replacesStatement property.

1.1.9 Serialization (stub)

Warning: This is an old version of the data standard. See latest version.

Information on serialization approaches for the project will be included here.
1.2 Partners and funders

The initial development of the Beneficial Ownership Data Standard is funded through support for the Open Ownership project from the UK Department for International Development. OpenOwnership is a project of Transparency International, OpenCorporates, One, the Open Contracting Partnership, the World Wide Web Foundation, Global Witness and The B Team.

This draft has been developed by Open Data Services Co-operative and OpenCorporates.

1.3 Contact

For more details about the OpenOwnership project, please contact the project coordinator, Zosia Sztykowski.