

Guide to Accziom Ontology

Ontology data is represented as the set of triple data.

<subject, predicate, object>

1 Predefined Prefixes

All elements are represented by a certain URI. To simplify representaion, the following predefined prefixes can be used. In below table, for example, **azp:givenName** indicates <http://www.accziom.com/ontology/ns/property/givenName>.

Group	Prefix	Public	Base URI	Description	Example
Propoerty	azp	Y	http://www.accziom.com/ontology/ns/property/	Accziom Property	azp:givenName
	azpr	N	http://www.accziom.com/ontology/ns/recordproperty/	Accziom Property for Management. This property does not exploit to general user.	azpr:resource azpr:public
	azm	N	http://www.accziom.com/ontology/ns/meta/	Accziom Meta Property, i.e. the property of property. The property describes the accziom property. These properties mainly defined the display of the property.	azm:label azm:group
Class	azc	Y	http://www.accziom.com/ontology/ns/class/	Accziom Class.	azc:Business azc:Person azc:Address azc:Unit
Entity Class	azps	Y	http://www.accziom.com/ontology/entity/person/	Person Entity	azps:person_932f6bcb-6963-42c8-861b-752e98b27d15
	azbs	Y	http://www.accziom.com/ontology/entity/business/	Legal Entity	azbs:bs_932f6bcb-6963-42c8-861b-752e98b27d15
	abrt	Y	http://www.accziom.com/ontology/taxonomy/abr#	ABR Entity Type	abrt:ET_ADF
	anzic	Y	http://www.accziom.com/ontology/taxonomy/anzic#	ANZSIC Category	anzic:C0001 anzic:G1 anzic:S1 anzic:D1
	azcr	Y	http://www.accziom.com/ontology/entity/unit/currency	Currency Entity	azcr:AUD
	azun	Y	http://www.accziom.com/ontology/entity/unit/general	General Unit Entity	azun:percent

Additionally, Accziom ontology use ontology traditional prefixes, such as **owl**, **rdf** and **rdfs**.

2 Entities

2.1 Person Entity

All Person Entities inherit from **azc:Person** and **owl:NamedIndividual**. So, Each Person Entity should be defined as follows:

```
azps:person_XXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX rdf:type azc:Person, owl:NamedIndividual .
```

where person_XXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX can be used as id of the person entity. Person Entity has several predefined properties, such as **familyName**, **givenName** and **middleName**.

Property	Description
azp:familyName	Last name of the person.
azp:middleName	(optional) Middle name of the person.
azp:givenName	First name of the person.
azp:gender	Gender of the person. The value can be "Male" or "Female".
azp:personTitle	(optional) Title of the person. e.g. "Mr.", "Dr.", "Mrs." or "Prof."
azp:personSuffix	Title of the person. e.g. "Mr.", "Dr.", "Mrs." or "Prof."
azp:locateAt	Address of the person. The value should be address entity. The address entity can be obtained by calling bsearch api.
azp:fax	Fax of the person.
azp:phone	Phone of the person.
azp:url	Website of the person.
azp:birth	birthday of the person. Strongly recommended that the value is formatted with "YYYY-MM-DD".

2.2 Legal Entity

All Legal Entities inherit from **azc:Business** and **owl:NamedIndividual**. So, Each Legal Entity should be defined as follows:

```
azbs:bs_XXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX rdf:type azc:Business, owl:NamedIndividual .
```

where bs_XXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX can be used as id of the legal entity. Legal Entity has many predefined properties.

Group	Property	Description
Header	azp:legalName	Legal Name of given legal entity.
	azp:description	(optional) The description of given legal entity.
Category	azp:abrEntityType	(optional) The legal entity type which is specified in ABR (Australian Business Register) service.
	azp:anzicCategory	(optional) The Australian and New Zealand Standard Industrial Classification in specified in https://www.abs.gov.au/ANZSIC
Contact	azp:locateAt	(optional) Address of legal entity. This value should be a entity, but not a string. It can be obtained by calling bsearch api.
	azp:phone	(optional) Phone number.
	azp:fax	(optional) Fax number.
Identifier	azp:url	(optional) Website of legal entity.
	azp:ABN	(optional) ABN (Australian Business Number) is a unique 11 digit number that identifies the business to the Australian government and community.
	azp:ACN	(optional) ACN (Australian Company Number) is a unique 9 digit number with the last digit being a check digit calculated using a modified modulus 10 calculation.
	azp:isin	(optional) ISIN number.
Status	azp:asxSymbol	(optional) ASX Symbol.
	azp:activeStatus	Active Status of given legal entity. The value can be "Active" or "Inactive".
Executives	azp:director	(optional) Director of legal entity. The value should be Person entity or Legal entity.
	azp:secretary	(optional) Secretary of legal entity. The value should be Person entity.
Timestamp	azp:gstEffectiveDate	(optional) GST (Goods and services tax) Effective Datetime.
	azp:abrLastUpdatedDate	(optional) The last datetime when ABR (Australian Business Register) server updated the data.
	azp:abrLastConfirmedDate	(optional) The last datetime when ACCZIOM system confirmed data from ABR (Australian Business Register) server.
Other	azp:hasBusiness	(optional) Business of Legal Entity.
	azp:geoLocation	(optional) GeoLocation. {legal entity} azp:geoLocation [azp:latitude {latitude value} ; azp:longitude {longitude value};]

3 Template

Most ACCZIOM ontology data is represented by using blind node, which is useful to manage each record. In general, RDF triple has only 3 elements and can not inflect meta data of the record. Therefore, ACCZIOM ontology use blind node to add meta data in each record, where **azpr** meta properties are used.

```
{entity} rdf:type azc:{class of entity}, owl:NamedIndividual
azp:{property1} [
  azp:value {value1};
  azpr:resource {id value};
  azpr:public "N"
];

azp:{property2} [
  azp:value {value2};
  azpr:resource {id value};
  azpr:public "N"
];
...
azp:personalTimestamp [
  azp:value {timestamp};
  azpr:resource "{id}";
  azpr:public "Y"
].
```

Example:

```
azbs:12345678_1234_1234_1234_123456789abc
azp:legalName [
  azp:value "My Legal Name";
  azpr:resource "123-45-67-890";
  azpr:public "Y" ;
];

azp:anzicCategory [
  azp:value "C109";
  azpr:resource "123-45-67-890";
  azpr:public "N" ;
];

azp:personalTimestamp [
  azp:value "2022-06-07:12:12:12";
  azpr:resource "123-45-67-890";
  azpr:public "Y" ;
];
```

Remember that **azpr:public** property indicates whether the record is public or not. In general, **azp:legalName** property is public.