

# Business Search API

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host: <https://bsearchau.accziom.com> port: 8007

## 1. Searching the List of Legal Entity Candidate

### 1.1 Searching in RDF Database

Endpoints: GET [https://bsearchau.accziom.com:8007/namespace\\_rdf/\[query\]](https://bsearchau.accziom.com:8007/namespace_rdf/[query])

Response: the list of candidate info with JSON format. Each candidate info contains [**similarity**, **matched\_string**, **id**, **type**] where **similarity** is the similarity of query and matched string (maximum value is 100), **matched\_string** indicates either a business name or a entity name, **id** can be either abn id or acn id, and **type** can be either **business name** or **entity name**.

Example:

- Endpoints: GET [https://bsearchau.accziom.com:8007/namespace\\_rdf/lodgeit](https://bsearchau.accziom.com:8007/namespace_rdf/lodgeit)
- Response:

```
[
  [
    100,
    "LODGE IT PTY LTD",
    "98146732569",
    "Entity Name"
  ],
  [
    100,
    "LODGEIT.COM.AU PTY. LIMITED",
    "97091286887",
    "Entity Name"
  ]
]
```

### 1.2 Searching in All Databases

Endpoints: GET [https://bsearchau.accziom.com:8007/namespace/\[query\]](https://bsearchau.accziom.com:8007/namespace/[query])

Response: the list of candidate info with JSON format. Each candidate info contains [**similarity**, **matched\_string**, **id**, **type**] where **similarity** is the similarity of query and matched string (maximum value is 100), **matched\_string** indicates either a business name or a entity name, **id** can be either abn id or acn id, and **type** can be one of **business name**, **trading name**, **company name** or **entity name**.

Example:

- Endpoints: GET <https://bsearchau.acctiom.com:8007/namesearch/lodge> it
- Response:

```
[
  [
    100,
    "LODGE IT PTY LTD",
    "98146732569",
    "Entity Name"
  ],
  ...
  [
    95,
    "HOTEL IT",
    "85655928050",
    "Trading Name"
  ],
  [
    94,
    "@ IT PTY LTD",
    "65110493313",
    "Entity Name"
  ],
  [
    94,
    "ALIAS IT",
    "83439284959",
    "Business Name"
  ],
  [
    94,
    "Alias IT",
    "52897640321",
    "Trading Name"
  ],
  ...
  [
    0,
    "JERRABOMBERRA LODGE PTY. LIMITED",
    "008533800",
    "Company Name"
  ],
  ...
]
```

## 2. Getting Information of Legal Entity

## 2.1 Getting Information from ABR Database

Endpoints: POST [https://bsearchau.accziom.com:8007/abn\\_query/](https://bsearchau.accziom.com:8007/abn_query/) Parameters:

- query: **abn**, **acn** or **entity name** where **abn** is 11 digits that identifies legal entity in ABR database, and **acn** is 9 digits that identifies legal entity in Ansic database. If **query** is inputed as **entity name**, it will return the legal entity which entity name is exactly same as the value of **entity name**.

Response: The ABR information of the legal entity with JSON format.

key	description
ABN	ABN identifier
Entity Status Code	Active or Inactive
ASIC Number	ACN identifier, if empty, the legal entity has not registered in ASIC database.
Entity Type	Abbreviation of the type of Legal Entity. For more details, please see <a href="https://abr.business.gov.au/Help/EntityTypeList">https://abr.business.gov.au/Help/EntityTypeList</a>
Entity Description	Full description of the type of Legal Entity.
State	the code of state where Legal Entity locates in.
Post Code	the postal code of Legal Entity
Probable Locality	the list of cities in state where Local Entity locates in. This value is joined with the symbol ';'.
Entity Name	the name of Legal Entity
Business Name	the list of business names of Legal Entity. This value is joined with the symbol ';'.
recordLastConfirmedDate	the last time when this data is recorded in Accziom database.

Example:

```
$.ajax({
  type: "POST",
  url: "https://bsearchau.accziom.com:8007/abn_query",
  dataType: "json",
  data: {"query": "98146732569"},
  success: function(result){
    // process response
  }
});
```

- Response:

```
{
  "ABN": "98146732569",
  "Entity Status Code": "Active",
  "ASIC Number": "146732569",
  "Entity Type": "PRV",
  "Entity Description": "Australian Private Company",
  "Goods And Services Tax": "2011-01-01T00:00:00.000Z",
  "State": "WA",
  "Post Code": "6027",
  "Probable Locality": "BELDON;CONNOLLY;EDGEWATER;HEATHRIDGE;JOONDALUP;JOONDALUP
DC;MULLALOO;OCEAN REEF",
  "Entity Name": "LODGE IT PTY LTD",
  "Business Name": "ACCZIOM",
  "recordLastConfirmedDate": "2022-05-13T13:34:00.232Z"
}
```

## 2.2 Getting Information from Ansic Database

Endpoints: POST [https://bsearchau.accziom.com:8007/acn\\_query/](https://bsearchau.accziom.com:8007/acn_query/) Parameters:

- query: **abn** or **acn**, where **abn** is 11 digits that identifies legal entity in ABR database, and **acn** is 9 digits that identifies legal entity in Ansic database.

Response: The Ansic information of the legal entity with JSON format.

key	description
Company Name	the name of legal entity.
ACN	ACN identifier, if empty, the legal entity has not registered in ASIC database.
Type	Abbreviation of the type of Legal Entity. For more details, please see <a href="https://aus.databasesets.com/aus-company/">https://aus.databasesets.com/aus-company/</a>
Class	Abbreviation of the class of Legal Entity. For more details, please see <a href="https://aus.databasesets.com/aus-company/">https://aus.databasesets.com/aus-company/</a>
Class	Abbreviation of the subclass of Legal Entity. For more details, please see <a href="https://aus.databasesets.com/aus-company/">https://aus.databasesets.com/aus-company/</a>
Status	the code of status of Legal Entity. For more details, please see <a href="https://aus.databasesets.com/aus-company/">https://aus.databasesets.com/aus-company/</a>

| ABN | ABN identifier | Example:

```
$.ajax({
  type: "POST",
  url: "https://bsearchau.accziom.com:8007/acn_query",
  dataType: "json",
  data: {"query": "146732569"},
  success: function(result){
    // process response
  }
});
```

- Response:

```
{
  "_id": "6210b48516c0329ceccda503e",
  "Company Name": "LODGE IT PTY LTD",
  "ACN": "146732569",
  "Type": "APTY",
  "Class": "LMSH",
  "Sub Class": "PROP",
  "Status": "REGD",
  "Date of Registration": "18/11/2010",
  "Current Name Indicator": "Y",
  "ABN": "98146732569"
}
```

## 2.3 Getting Information from Bing Search

Endpoints: POST [https://bsearchau.accziom.com:8007/bing\\_query/](https://bsearchau.accziom.com:8007/bing_query/) Parameters:

- query: the list of queries
- locality: (optional) the locality where legal entity locates in. where **query** can be entity name or business name.

Response: The bing search results with JSON format.

Example:

```
$.ajax({
  type: "POST",
  url: "https://bsearchau.accziom.com:8007/bing_query",
  dataType: "json",
  data: {"query": ["Lodge IT", "ACCZIOM"]},
```

```

    success: function(result){
        // process response
    }
});

```

- Response:

```

{
  "Url": "https://accziom.com/",
  "Snippet": "your business on digital steroids. accelerate your enterprise with new methods for accessing and delivering professional and business services. communicate and coordinate with purpose-built technologies. gain access to a range of professional services in a super-efficient manner. easily consume or deliver business services in an intuitive manner. "
}

```

## 2.4 Getting Information from LEI database

Endpoints: POST [https://bsearchau.accziom.com:8007/lei\\_query/](https://bsearchau.accziom.com:8007/lei_query/) Parameters:

- query: the name of the legal entity.

Response: The LEI information with JSON format for query.

Example:

```

$.ajax({
  type: "POST",
  url: "https://bsearchau.accziom.com:8007/lei_query",
  dataType: "json",
  data: {"query": "BHP GROUP LIMITED"},
  success: function(result){
    // process response
  }
});

```

- Response:

```

{
  "type": "lei-records",
  "id": "WZE1WSENV6JSZFK0JC28",

```

```
"attributes": {
  "lei": "WZE1WSENV6JSZFK0JC28",
  "entity": {
    "legalName": {
      "name": "BHP GROUP LIMITED",
      "language": "en"
    },
    "otherNames": [
      {
        "name": "BHP Billiton Limited",
        "language": "en",
        "type": "PREVIOUS_LEGAL_NAME"
      },
      {
        "name": "BHP Limited",
        "language": "en",
        "type": "PREVIOUS_LEGAL_NAME"
      },
      {
        "name": "The Broken Hill Proprietary Company Limited",
        "language": "en",
        "type": "PREVIOUS_LEGAL_NAME"
      }
    ],
    "legalAddress": {
      "language": "en",
      "addressLines": [
        "Level 16",
        "171 Collins Street"
      ],
      "city": "MELBOURNE",
      "region": "AU-VIC",
      "country": "AU",
      "postalCode": "3000"
    },
    "headquartersAddress": {
      "language": "en",
      "addressLines": [
        "Level 16",
        "171 Collins Street"
      ],
      "city": "Melbourne",
      "region": "AU-VIC",
      "country": "AU",
      "postalCode": "3000"
    },
    "registeredAt": {
      "id": "RA000014"
    },
    "registeredAs": "004 028 077",
    "jurisdiction": "AU",
  }
}
```

```
    "legalForm": {
      "id": "R4KK"
    },
    "associatedEntity": {},
    "status": "ACTIVE",
    "expiration": {},
    "successorEntity": {}
  },
  "registration": {
    "initialRegistrationDate": "2012-06-06T15:56:00Z",
    "lastUpdateDate": "2021-05-26T10:07:00Z",
    "status": "ISSUED",
    "nextRenewalDate": "2022-05-26T10:23:00Z",
    "managingLou": "EVK05KS7XY1DEII3R011",
    "corroborateLevel": "FULLY_CORROBORATED",
    "validatedAt": {
      "id": "RA000014"
    },
    "validatedAs": "004 028 077"
  }
},
"relationships": {
  "managing-lou": {
    "links": {
      "related": "https://api.gleif.org/api/v1/lei-records/WZE1WSENV6JSZFK0JC28/managing-lou"
    }
  },
  "lei-issuer": {
    "links": {
      "related": "https://api.gleif.org/api/v1/lei-records/WZE1WSENV6JSZFK0JC28/lei-issuer"
    }
  },
  "field-modifications": {
    "links": {
      "related": "https://api.gleif.org/api/v1/lei-records/WZE1WSENV6JSZFK0JC28/field-modifications"
    }
  },
  "direct-parent": {
    "links": {
      "reporting-exception": "https://api.gleif.org/api/v1/lei-records/WZE1WSENV6JSZFK0JC28/direct-parent-reporting-exception"
    }
  },
  "ultimate-parent": {
    "links": {
      "reporting-exception": "https://api.gleif.org/api/v1/lei-records/WZE1WSENV6JSZFK0JC28/ultimate-parent-reporting-exception"
    }
  }
}
```



```

    },
    "direct-children": {
      "links": {
        "relationship-records": "https://api.gleif.org/api/v1/lei-records/WZE1WSENV6JSZFK0JC28/direct-child-relationships",
        "related": "https://api.gleif.org/api/v1/lei-records/WZE1WSENV6JSZFK0JC28/direct-children"
      }
    },
    "ultimate-children": {
      "links": {
        "relationship-records": "https://api.gleif.org/api/v1/lei-records/WZE1WSENV6JSZFK0JC28/ultimate-child-relationships",
        "related": "https://api.gleif.org/api/v1/lei-records/WZE1WSENV6JSZFK0JC28/ultimate-children"
      }
    },
    "isins": {
      "links": {
        "related": "https://api.gleif.org/api/v1/lei-records/WZE1WSENV6JSZFK0JC28/isins"
      }
    }
  },
  "links": {
    "self": "https://api.gleif.org/api/v1/lei-records/WZE1WSENV6JSZFK0JC28"
  }
}

```

## 2.5 Getting Information from TrueLocal database

Endpoints: POST [https://bsearchau.accciom.com:8007/tl\\_query/](https://bsearchau.accciom.com:8007/tl_query/) Parameters:

- query: the name of the legal entity.

Response: The Truelocal information with JSON format for query.

Example:

```

$.ajax({
  type: "POST",
  url: "https://bsearchau.accciom.com:8007/tl_query",
  dataType: "json",
  data: {"query": "Family Clean"},
  success: function(result){
    // process response
  }
});

```

- Response:

```
{
  "_id": "622ac7dd065d40a92678adea",
  "title": "Family Clean",
  "category": "CLEANING",
  "address": "New Farm QLD, 4005",
  "phone1": "(07) 3254 2400",
  "phone2": "(07) 3254 2400",
  "description": "Brisbane's most reputable Home Cleaning & Housekeeping Agency.\n\nFamily Clean is a 'hands-on' family run cleaning business, established in Brisbane 23 years ago, and are now recognised as Brisbane's most reputable home cleaning agency.\n\nSpecialising in Regular Home Cleaning & Housekeeping services, you can rest easy knowing the everyday essentials are taken care of, and also enjoy premium inclusions (at the same affordable rate!) added to your weekly or fortnightly service, whenever you need them.\n\nEco-friendly products are also provided to you, at NO additional cost!\n\nTry us and notice the difference!\n\nwww.familyclean.com.au\n'House Cleaning. With\n...read more",
  "abn": "27941793902",
  "services": "Party Cleaning,Steam Cleaning,Oven Cleaning,Upholstery Cleaning,Carpet Cleaning,Window Cleaning,Ironing,Mopping,Floor Cleaning,,"
}
```

## 2.6 Getting Information from TPB database

Endpoints: POST [https://bsearchau.accziom.com:8007/tpb\\_query/](https://bsearchau.accziom.com:8007/tpb_query/) Parameters:

- query: the name of the legal entity.

Response: The TPB information with JSON format for query.

Example:

```
$.ajax({
  type: "POST",
  url: "https://bsearchau.accziom.com:8007/tpb_query",
  dataType: "json",
  data: {"query": "Holzworth Partners Pty Ltd"},
  success: function(result){
    // process response
  }
});
```

- Response:

```
{
  "_id": "622acad091e289e485a5412f",
  "ID": 1001675,
  "AGENT_NUM": 24611653,
  "PRACTICE_NAME": "Holzworth Partners Pty Ltd",
  "CITY_DISPLAY": "Brisbane",
  "STATE_DISPLAY": "QLD",
  "CATEGORY": "TAB",
  "STATUS": "Registered",
  "COMPANY_SORT": "HOLZWORTH PARTNERS PTY LTD",
  "TERMINATION": "None on record",
  "ASSOCIATIONS": "None on record",
  "DISQUALIFICATION": "None on record",
  "REG_DATE": "10/04/2013",
  "REG_EXPIRY": "01/05/2022",
  "REG_STATUS": "Registered",
  "SANCTION": "None on record",
  "SUSPENSION": "None on record",
  "REG_NAME": "Holzworth Partners Pty Ltd",
  "REG_TYPE": "Company Tax Agent",
  "BUS_ADDRESS": "471 Adelaide Street
Level 3 & 4
Brisbane, QLD 4000",
  "ADDRESS_2": "Level 3 & 4",
  "CITY": "Brisbane",
  "COMPANY": "Holzworth Partners Pty Ltd",
  "ZIP": 4000,
  "STATE_PROVINCE": "QLD",
  "ADDRESS_1": "471 Adelaide Street",
  "REG_TYPE_SIMPLE": "Tax"
}
```

## 2.7 Getting Information from ASX database

Endpoints: POST [https://bsearchau.accziom.com:8007/asx\\_query/](https://bsearchau.accziom.com:8007/asx_query/)

Parameters:

- query: the name of the legal entity.

Response: The ASX information with JSON format for query.

Example:

```
$.ajax({
```

```
type: "POST",
url: "https://bsearchau.accziom.com:8007/asx_query",
dataType: "json",
data: {"query": "1414 DEGREES LIMITED"},
success: function(result){
    // process response
}
});
```

- Response:

```
{
  "_id": "62459af087103fa4d764dc34",
  "symbol": "14D",
  "displayName": "1414 DEGREES LIMITED",
  "industry": "Capital Goods",
  "dateListed": "2018-09-12",
  "marketCap": 19141119,
  "xid": "486191506",
  "priceChangeFiveDayPercent": -6.060606060606066,
  "isRecentListing": false,
  "header": {
    "dateListed": "2018-09-12",
    "displayName": "1414 DEGREES LIMITED",
    "priceAsk": 0.093,
    "priceBid": 0.092,
    "priceChange": -0.0020000000000000018,
    "priceChangePercent": -2.1052631578947385,
    "priceLast": 0.093,
    "sector": "Industrials",
    "industryGroup": "Capital Goods",
    "securityType": 1,
    "symbol": "14D",
    "volume": 371175,
    "xid": "486191506",
    "marketCap": 19141119,
    "statusCode": ""
  },
  "stat": {
    "isin": "AU0000010696",
    "priceAsk": 0.093,
    "priceBid": 0.092,
    "priceClose": 0.095,
    "priceDayHigh": 0.097,
    "priceDayLow": 0.092,
    "priceFiftyTwoWeekHigh": 0.2,
    "priceFiftyTwoWeekLow": 0.088,
```

```

    "volumeAverage": 119188.47191,
    "cashFlow": -4.8798,
    "earningsPerShare": -0.03949,
    "freeCashFlowYield": -0.0000100000010000001,
    "priceEarningsRatio": -99999.99,
    "priceToCash": -99999.99,
    "foreignExempt": false,
    "shareDescription": "Ordinary Fully Paid",
    "yieldAnnual": 0,
    "revenue": 486550,
    "netIncome": -5974180
  },
  ...
  "timestamp": "2022-03-31T10:51:07.326Z"
}

```

## 2.8 Getting Information from RDF database

Accessing to RDF database needs to pay. To do it, client should call request, first. Server will respond the seed string and client should resend the encoded string of the seed to server. Once server verify successfully, server will return rdf data.

### 2.8.1 Request for pay service

Endpoints: POST <https://bsearchau.acctiom.com:8007/request>

Parameters:

- address: address of user to pay.

Response: returns the seed string. If failed, returns empty string.

### 2.8.2 Search Legal Entity from RDF database

Whenever call this function, client should call request before. Client call this function with parameter **verification** that encoded the seed string sended from server when request to pay.

Endpoints: POST [https://bsearchau.acctiom.com:8007/rdf\\_query/](https://bsearchau.acctiom.com:8007/rdf_query/)

Parameters:

- query: abn, acn, or entity name.
- free: **"true"** or **"false"**. If it is set as **"true"**, it will return public data of legal entity. if it is set as **"false"**, it will return all data.
- address: address of account to pay.
- seed: the string sended from server to verify.
- verification: verification code for pay that encoded the seed string.

Response: The RDF information with JSON format for query.

Example:

```
$.ajax({
  type: "POST",
  url: "https://bsearchau.accziom.com:8007/rdf_query",
  dataType: "json",
  data: {
    query: "1414 DEGREES LIMITED",
    free: "false",
    address: "0x...",
    seed: "...",
    verification: "..."
  },
  success: function(result){
    // process response
  }
});
```

- Response:

```
{
  "uri": "http://www.accziom.com/ontology/entity/business/bs_aaf4f6a4-45d2-4d2f-8577-ae905475d6a4",
  "Dividend": {
    "Yield Annual": {
      "at": "2022-03-31T10:51:07.326Z",
      "Unit": {
        "uri":
"http://www.accziom.com/ontology/entity/unit/generalpercent",
        "label": "%"
      },
      "value": "0"
    }
  },
  "Share Information": {
    "Ask": {
      "at": "2022-03-31T10:51:07.326Z",
      "Unit": {
        "uri":
"http://www.accziom.com/ontology/entity/unit/currencyaud",
        "label": "$AUD"
      },
      "value": "0.093"
    },
    "Close Price": {
      "at": "2022-03-31T10:51:07.326Z",
      "value": "0.095",

```

```

      "Unit": {
        "uri":
"http://www.accziom.com/ontology/entity/unit/currencyaud",
        "label": "$AUD"
      }
    },
    "Low Price": [
      {
        "to": "2022-03-31T10:51:07.326Z",
        "value": "0.088",
        "from": "2021-03-31T10:51:07.326Z",
        "Unit": {
          "uri":
"http://www.accziom.com/ontology/entity/unit/currencyaud",
          "label": "$AUD"
        }
      },
      {
        "to": "2022-03-31T10:51:07.326Z",
        "value": "0.092",
        "from": "2022-03-30T10:51:07.326Z",
        "Unit": {
          "uri":
"http://www.accziom.com/ontology/entity/unit/currencyaud",
          "label": "$AUD"
        }
      }
    ],
    "Price Change": {
      "to": "2022-03-31T10:51:07.326Z",
      "value": "-0.0020000000000000018",
      "from": "2021-03-31T10:51:07.326Z",
      "Unit": {
        "uri":
"http://www.accziom.com/ontology/entity/unit/currencyaud",
        "label": "$AUD"
      }
    },
    "Price Change Percent": [
      {
        "to": "2022-03-31T10:51:07.326Z",
        "value": "-2.1052631578947385",
        "Unit": {
          "uri":
"http://www.accziom.com/ontology/entity/unit/generalpercent",
          "label": "%"
        },
        "from": "2021-03-31T10:51:07.326Z"
      },
      {
        "value": "-6.060606060606066",

```

```
        "to": "2022-03-31T10:51:07.326Z",
        "Unit": {
          "uri":
"http://www.accziom.com/ontology/entity/unit/generalpercent",
          "label": "%"
        },
        "from": "2022-03-26T10:51:07.326Z"
      }
    ],
    "High Price": [
      {
        "to": "2022-03-31T10:51:07.326Z",
        "value": "0.2",
        "from": "2021-03-31T10:51:07.326Z",
        "Unit": {
          "uri":
"http://www.accziom.com/ontology/entity/unit/currencyaud",
          "label": "$AUD"
        }
      },
      {
        "to": "2022-03-31T10:51:07.326Z",
        "from": "2022-03-30T10:51:07.326Z",
        "value": "0.097",
        "Unit": {
          "uri":
"http://www.accziom.com/ontology/entity/unit/currencyaud",
          "label": "$AUD"
        }
      }
    ],
    "Last Price": {
      "at": "2022-03-31T10:51:07.326Z",
      "Unit": {
        "uri":
"http://www.accziom.com/ontology/entity/unit/currencyaud",
        "label": "$AUD"
      },
      "value": "0.093"
    },
    "Bid": {
      "at": "2022-03-31T10:51:07.326Z",
      "value": "0.092",
      "Unit": {
        "uri":
"http://www.accziom.com/ontology/entity/unit/currencyaud",
        "label": "$AUD"
      }
    },
    "Share Description": "Ordinary Fully Paid"
  },
```



```
"TimeStamp": {
  "ABR Last Confirmed Date": "2022-03-23T02:34:56.207Z",
  "ASX Confirmed Date": "2022-03-31T10:51:07.326Z",
  "ASX Listed Date": "2018-09-12",
  "ABR Last Updated Date": "2021-04-24T00:00:00.000Z",
  "GST Effective Date": "2009-09-01"
},
"Header": {
  "Legal Name": "1414 DEGREES LIMITED",
  "Description": "Commercialising energy storage technology, thermal energy storage system providing a low cost solution to intermittent energy supply and recovering electricity through a turbine on demand."
},
"Market Information": {
  "Market Capacity": {
    "at": "2022-03-31T10:51:07.326Z",
    "value": "19141119",
    "Unit": {
      "uri":
"http://www.accziom.com/ontology/entity/unit/currencyaud",
      "label": "$AUD"
    }
  },
  "Volume": {
    "at": "2022-03-31",
    "value": "371175"
  },
  "Average Daily Volume": {
    "value": "119188.47191",
    "to": "2022-03-31T10:51:07.326Z",
    "from": "2021-03-31T10:51:07.326Z"
  },
  "Revenue": {
    "at": "2022-03-31T10:51:07.326Z",
    "Unit": {
      "uri":
"http://www.accziom.com/ontology/entity/unit/currencyaud",
      "label": "$AUD"
    },
    "value": "486550"
  }
},
"Identifier": {
  "ACN": "138803620",
  "ASX Symbol": "14D",
  "ISIN": "AU0000010696",
  "ABN": "57138803620"
},
"Contact": {
  "Phone": [
    "08 8357 8273",
```

```

        "08 8236 2300"
    ],
    "Address": [
        {
            "uri":
"http://www.accziom.com/ontology/entity/address/au/sadr_136-Daws-
Road_MELROSE-PARK_SA_AU",
            "label": "136 Daws Road, MELROSE PARK, SA, AU, 5039"
        },
        {
            "value": {
                "uri":
"http://www.accziom.com/ontology/entity/address/au/sadr_115-Grenfell-
Street_ADELAIDE_SA_AU",
                "label": "115 Grenfell Street, ADELAIDE, SA, AU, 5000"
            },
            "details": "Level 5"
        },
        {
            "uri":
"http://www.accziom.com/ontology/entity/address/au/padr_5039_SA_AU",
            "label": "SA, AU, 5039"
        }
    ],
    "URL": "http://www.1414degrees.com.au"
},
"Fundamentals": {
    ...
}
...
}

```

### 2.8.3 Getting information of Entity from RDF ID

Whenever call this function, client should call request before. Client call this function with parameter **verification** that encoded the seed string sended from server when request to pay.

Endpoints: POST [https://bsearchau.accziom.com:8007/uri\\_query/](https://bsearchau.accziom.com:8007/uri_query/)

Parameters:

- query: RDF identifier.
- free: **"true"** or **"false"**. If it is set as **"true"**, it will return public data of legal entity. if it is set as **"false"**, it will return all data.
- address: address of account to pay.
- seed: the string sended from server to verify.
- verification: verification code for pay that encoded the seed string.

Response: The RDF information with JSON format for query.

Example:

```
$.ajax({
  type: "POST",
  url: "https://bsearchau.accziom.com:8007/uri_query",
  dataType: "json",
  data: {
    query: "http://www.accziom.com/ontology/taxonomy/abr#ET_PRV",
    free: "true",
    address: "0x...",
    seed: "...",
    verification: "..."
  },
  success: function(result){
    // process response
  }
});
```

Response:

```
{
  "uri": "http://www.accziom.com/ontology/taxonomy/abr#ET_PRV",
  "Content": {
    "group": "COY",
    "code": "PRV"
  },
  "Header": {
    "Description": "A private Australian company is not listed on the
stock exchange and is not included in the description of Australian public
company or cooperative.\r\n",
    "Name": "Australian Private Company",
    "Display Name": "Australian Private Company"
  },
  "##order##": {
    "group": "4",
    "Content": "3",
    ...
  }
  ...
}
```

## 2.8.4 Getting GeoLocation information of Legal Entity from RDF ID

Endpoints: POST <https://bsearchau.accziom.com:8007/geolocation>

## Parameters:

- entity: RDF identifier of Legal Entity.

Response: GeoLocation information with JSON format for query. It includes **lat** and **lng** fields.

## Example:

```
$.ajax({
  type: "GET",
  url: "https://bsearchau.accziom.com:8007/geolocation",
  dataType: "json",
  data: {
    entity:
"http://www.accziom.com/ontology/entity/business/bs_5852b4d2-d060-4e87-b305-07918fcf255a",
  },
  success: function(result){
    // result <- { "lat": "-31.7794", "lng": "115.743" } }); < code>
```

### 3. Inserting RDF data

#### 3.1. Inserting RDF data

Users can insert RDF data to Accziom ontology and obtain a corresponding NFT.

Endpoints: POST [https://bsearchau.accziom.com:8007/insert\\_rdf](https://bsearchau.accziom.com:8007/insert_rdf)

## Parameters:

- record: RDF records with turtle format. the content can include one or more records. the specific format is as follow:

```
[entity]
azp:[property1] [
  azp:value "...";
  azpr:resource "[id]";
  azpr:public "N"
] ;

azp:[property2] [
  azp:value "...";
  azpr:resource "[id]";
  azpr:public "N"
] ;

...
```

```

azp:personalTimestamp [
  azp:value "[timestamp]";
  azpr:resource "[id]";
  azpr:public "Y"
].

```

Example:

```

azbs:123456789
azp:anzicCateogy [
  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"
].

```

- address: address of account to pay.
- id: user id that temporarily generated. for above example, it is "123-45-67-890".
- timestamp: the time when record create. the parameter should be equal to timestamp of rdf record. i.e. in above example, the value should be "2022-06-07:12:12:12"
- nftname: the name of NFT to mint.

Response: returns NFT Token URI. if failed, returns empty string.

## 4. Getting External Data

### 4.1. Getting GICS Data

The api returns Global Industry Classification Standard data.

Endpoints: GET <https://bsearchau.accziom.com:8007/gics>

Parameters: (Empty)

### 4.2. Getting List of ASX Companies

The api returns the list of ASX companies.

Endpoints: GET [https://bsearchau.accziom.com:8007/asx\\_list](https://bsearchau.accziom.com:8007/asx_list)

Parameters: (Empty)

## 5. WSS Service

### 5.1. ANZSIC Chatbot

Endpoints: <wss://bsearchau.accziom.com:8018>

