

# Technopedia DejaCode Open Source Content Pack Getting Started Guide

## Overview:

DejaCode Open Source is the latest inbound content pack from BDNA. This content pack has been licensed from NexB. NexB provides products and services to help companies actively identify and manage their software assets, including Open Source Software and other third- party software components. NexB focus areas are helping companies to:

- Establish policies, processes and tools for managing open source software components and their licenses.
- Identify open source software component provenance (license and origin).
- Manage software components with complete software "bill of materials" including open source, third- party and original code.
- Facilitate reuse of software components inside a company and across the software supply chain.

## Customer Benefits:

- **Understand the Open Source Position:** Flag all open source products through normalized data enriched with the DejaCode Open Source Content Pack.
- **Reduce Risk:** Get a clear picture of all open source licenses to which a company is exposed
- **Comply with License Terms:** Understand the obligations and restrictions associated with open source software licenses.

## Details:

This DejaCode Open Source API (`dejacode_opensrc_sw`) has all the Technopedia attributes for a software product, like manufacturer id and name, taxonomy, software product id and name, software edition, version group, version and release id and names along with a section called "DejaCode", which is a nested object within this API. This DejaCode section has the corresponding data from DejaCode, which includes urn, uuid, owner, name and version of the product. The DejaCode section has a nested licenses section that provides license information about the software product. Each software product can have one or more licenses. Each license section has the following attributes: `is_primary`, `lic_category`, `lic_type` and `lic_short_name` that comes from DejaCode. The API has filters enabled on most of the BDNA Technopedia attributes and in addition we have three custom filters – `lic_category`, `lic_type` and `lic_short_name`.

## Schema:

|                            |   |
|----------------------------|---|
| cat_dejacode_opensrc_sw_id | Unique ID of the Technopedia to DejaCode mapping  |
| cat_manufacturer_id        | Technopedia unique ID for manufacturer  |
| cat_sw_edition_id          | Technopedia unique ID of the SW edition   |
| cat_sw_product_id          | Technopedia unique ID of the SW Product   |
| cat_sw_release_id          | Technopedia unique ID of the SW release   |
| cat_sw_version_group_id    | Technopedia unique ID of the SW Version Group   |
| cat_sw_version_id          | Technopedia unique ID of the SW Version   |
| cat_taxonomy2012_id        | Technopedia unique ID of the BDNA Taxonomy  |
| create_date                | Creation Date of the Row  |
| delete_reason              | The reason why the entry is marked to be deleted (Values: Duplicate, Inaccurate)  |
| manufacturer               | Name of the software manufacturer   |
| manufacturer_tier          | Categorization of manufacturers based on priority/importance  |
| status                     | whether the record is a new record ("status":"New") or updated record ("status":"Updated")                                  |
| sw_edition                 | The Edition of the Software   |
| sw_product                 | The Product name of the software gathered from the manufacturer's website   |
| sw_release                 | The Release of the software   |
| sw_version                 | The version number of the released software   |
| sw_version_group           | The name of version group (or market version) of the software product   |
| sw_version_order           | A number that indicates the sequential order by which this particular version was released along the history of the product |
| taxonomy2012               | BDNA's taxonomy   |
| to_be_deleted              | Is the record to be deleted, e.g. Y   |
| to_be_deleted_on           | Date of when the record will be deleted   |
| dejacode                   | Nested object containing licensing information from DejaCode  |

### DejaCode Nested Attributes:

|                |
|----------------|
| dejacode       |
| name           |
| owner          |
| version        |
| urn            |
| uuid           |
| licenses       |
| is_primary     |
| lic_category   |
| lic_short_name |
| lic_type       |
| keywords       |
| Keyword        |

## DejaCode Attribute Definitions:

### Field descriptions:

**"name"**: Public name for the Component.

**"owner"**: Company, open source project or individual author.

**"version"**: Version of the Component.

**"urn"**: The Universal Resource Name of a component is a human readable ID assigned to a component.

**"uuid"**: A stable and globally unique ID assigned to a component in DejaCode.

**keywords**: Array of keyword objects, each object having a single attribute "keyword".

**"keyword"**: General software category.

**licenses**: Array of license objects. Each object has the following attributes:

**"lic\_short\_name"**: Short name of the licenses that apply to the component.

**"lic\_category"**: A license category provides a major grouping for licenses, generally describing the relationship between the licensor and licensee.

**"lic\_type"**: A license type identifies the high level nature of a license category: Open Source or Proprietary.

**"is\_primary"**: Indicates whether a named license assigned to a component is the primary named license for that component.

### License Categories:

**Label**: Attribution

**Text**: Open Source software that is made available under "non-copyleft" licenses. These generally require attribution of the included open source and may include other obligations.

**license\_type**: Open Source

**Label**: Commercial

**Text**: Third-party proprietary software offered under a direct commercial license between supplier and customer. Further fact-finding by Product Teams will be necessary to determine the code's license status and function, if any.

**license\_type**: Proprietary

**Label**: Copyleft

**Text**: Open source software with a "copyleft" license that offers irrevocable permission to the public to copy and redistribute the work in the same or modified form, but with the conditions that all such redistributions make the work available in a form that facilitates further modification and use the same license terms. A copyleft license can require code interacting with copyleft-licensed code to be licensed the same way.

**license\_type**: Open Source

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## Label: Copyleft Limited

**Text:** A license that requires you to redistribute source code, including your changes, and also to provide attribution for the software authors. Your obligation to redistribute source code, including proprietary code linked with code under this license, is limited according to license-specific rules.

**license\_type:** Open Source

## Label: Free

**Text:** Free proprietary software that may not require a commercial license but may have specific terms and conditions, which Product Teams are obligated to follow. Some of these terms and conditions are provided with or in the code or in clickable downloaded licenses. Examples are the Sun Binary Code License Agreement or a freely offered BSP.

**license\_type:** Proprietary

## Label: Public Domain

**Text:** Open source software that is made available without explicit obligations, but which has a license notice that must be kept with the code per organization policy. The match may be to software, code examples on a website, published public domain specifications or another type of publication.

**license\_type:** Open Source

## Label: Redistributable

**Text:** An Attribution-style license, that contains restrictions regarding the usage of the software (for example, where the software is not intended for use in nuclear power plants), or the redistribution of the software (for example, where commercial redistribution of the software is not allowed without express permission). The Free Software Foundation (FSF) says that a license with this kind of restriction is not really open source.

**license\_type:** Proprietary

## API Query Examples:

### Sample Output from the API:

```
{
  "dejacode_opensrc_sw_list": [
    {
      "cat_dejacode_opensrc_sw_id": "61094702",
      "cat_manufacturer_id": 7835,
      "cat_taxonomy2012_id": 19892870,
      "cat_sw_product_id": 9861342,
      "cat_sw_edition_id": null,
      "cat_sw_version_group_id": 11377862,
      "cat_sw_version_id": 10010995,
      "cat_sw_release_id": 10011485,
      "dejacode": {
        "keywords": [
          {
            "keyword": "Library"
          }
        ]
      }
    },
  ],
}
```

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```
"licenses": [  
  {  
    "is_primary": "FALSE",  
    "lic_category": "Copyleft",  
    "lic_short_name": "GPL 2.0 with classpath exception",  
    "lic_type": "Open Source"  
  },  
  {  
    "is_primary": "TRUE",  
    "lic_category": "Copyleft",  
    "lic_short_name": "CDDL 1.1",  
    "lic_type": "Open Source"  
  }  
],  
"name": "JSP Standard Tag Library (JSTL)",  
"owner": "Oracle (Sun)",  
"urn": "urn:dje:component:JSP+Standard+Tag+Library+%28JSTL%29:1.2.1",  
"uuid": "d0376cb3-18cc-417c-af88-149054920482",  
"version": "1.2.1"  
},  
"manufacturer": "Oracle",  
"manufacturer_tier": 1,  
"taxonomy2012": "Other Utilities",  
"resource_uri": "/api/v1/dejacode_opensrc_sw/61094702/",  
"status": "N/A",  
"sw_product": "Java Server Pages Standard Tag Library (JSTL)",  
"sw_edition": null,  
"sw_version": "1.2",  
"sw_version_group": "1",  
"sw_version_order": 3,  
"sw_release": "Java Server Pages Standard Tag Library (JSTL)",  
"create_date": "2014-03-10",  
"last_modified_date": "2014-03-10",  
"to_be_deleted": "",  
"to_be_deleted_on": null,  
"delete_reason": "",  
"replacement_id": null  
}  
]  
}
```

## Sample Use Case Queries:

To get the list of Technopedia software products, which have license category as Redistributable, the API call would be:

[http://api.technopedia.com/api/v1/dejacode\\_opensrc\\_sw/?lic\\_category=Redistributable](http://api.technopedia.com/api/v1/dejacode_opensrc_sw/?lic_category=Redistributable)

To get the list of Technopedia software products, which have license type as Open Source, the API call would be:

[http://api.technopedia.com/api/v1/dejacode\\_opensrc\\_sw/?lic\\_type=Open+Source](http://api.technopedia.com/api/v1/dejacode_opensrc_sw/?lic_type=Open+Source)

To get the list of Technopedia software products that have license type as Open Source made by MongoDB, the API call would be:

[http://api.technopedia.com/api/v1/dejacode\\_opensrc\\_sw/?lic\\_type=Open+Source&manufacturer=MongoDB](http://api.technopedia.com/api/v1/dejacode_opensrc_sw/?lic_type=Open+Source&manufacturer=MongoDB)

To get the list of Technopedia software products that have license type as Proprietary, the API call would be:

[http://api.technopedia.com/api/v1/dejacode\\_opensrc\\_sw/?lic\\_type=Proprietary](http://api.technopedia.com/api/v1/dejacode_opensrc_sw/?lic_type=Proprietary)

To get the list of Technopedia software products that have license short name as MIT License, the API call would be:

[http://api.technopedia.com/api/v1/dejacode\\_opensrc\\_sw/?lic\\_short\\_name=MIT+License](http://api.technopedia.com/api/v1/dejacode_opensrc_sw/?lic_short_name=MIT+License)

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