**Version 1.02, 2019. 9. 13**

**Table I. dcat:Catalog => BDC\_Catalogue**

- A data catalog is a curated collection of metadata about datasets.

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|  | **Property** | **Description** | **DCAT Range** | **BDC** |
| 1 | dct:title | A name given to the catalog. | rdfs:Literal | BDC\_Catalogue:title |
| 2 | dct:description | A free-text account of the catalog. | rdfs:Literal | BDC\_Catalogue:description |
| 3 | dct:issued | Date of formal issuance (e.g., publication) of the catalog. | rdfs:Literal (ISO 8601) | BDC\_Record |
| 4 | dct:modified | Most recent date on which the catalog was changed, updated or modified. | rdfs:Literal (ISO8601) | BDC\_Record |
| 5 | dct:language | The language of the catalog | dct:LinguisticSystem (iso 639-1) | BDC\_Catalogue:language |
| 6 | dct:license | This links to the license document under which the catalog is made available and not the datasets. | dct:LicenseDocument | None |
| 7 | dct:rights | This describes the rights under which the catalog can be used/reused and not the datasets | dct:RightsStatement | None |
| 8 | dct:spatial | The geographical area covered by the catalog. | dct:Location | None |
| 9 | foaf:homepage | The homepage of the catalog. | foaf:Document | None |
| 10 | dct:publisher | The entity responsible for making the catalog online. | foaf:Agent | BDC\_Catalogue:responsibleParty |
| 11 | dcat:themeTaxonomy | The knowledge organization system (KOS) used to classify catalog's datasets. | skos:ConceptScheme | BDC\_Catalogue:sourceDomain/  BDC\_Catalogue:usageDomain |
| 12 | dcat:dataset | A dataset that is part of the catalog. | dcat:Dataset | BDC\_Catalogue:dataset |
| 13 | dcat:record | A catalog record that is part of the catalog. | dcat:CatalogRecord | BDC\_Catalogue:record |

**Table II. dcat:CatalogRecord => BDC\_Rercord**

- A record in a data catalog, describing a single dataset.

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|  | **Property** | **Description** | **Range** | **BDC** |
| 1 | dct:title | A name given to the catalog. | rdfs:Literal | None |
| 2 | dct:description | A free-text account of the catalog. | rdfs:Literal | None |
| 3 | dct:issued | Date of formal issuance (e.g., publication) of the catalog. | rdfs:Literal (ISO 8601) | BDC\_Catalogue:issuedDate |
| 4 | dct:modified | Most recent date on which the catalog was changed, updated or modified. | rdfs:Literal (ISO8601) | BDC\_Catalogue:modifiedDate |
| 5 | foaf:primaryTopic | Links the catalog record to the dcat:Dataset resource described in the record. | foat:primartyTopic, dcat:Dataset | None |

**Table III. dcat:Dataset => BDC\_Dataset**

- A collection of data, published or curated by a single agent, and available for access or download in one or more formats.

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|  | **Property** | **Description** | **Range** | **BDC** |
| 1 | dct:title | A name given to the catalog. | rdfs:Literal | BDC\_Dataset:title |
| 2 | dct:description | A free-text account of the catalog. | rdfs:Literal | BDC\_Dataset:description |
| 3 | dct:issued | Date of formal issuance (e.g., publication) of the catalog. | rdfs:Literal (ISO 8601) | None |
| 4 | dct:modified | Most recent date on which the catalog was changed, updated or modified. | rdfs:Literal (ISO8601) | None |
| 5 | dct:identifier | A unique identifier of the dataset. | rdfs:Literal | None |
| 6 | dcat:keyword | A keyword or tag describing the dataset. | rdfs:Literal | BDC\_Dataset:keyword |
| 7 | dct:language | The language of the catalog | dct:LinguisticSystem (iso 639-1) | None |
| 8 | dcat:contactPoint | Link a dataset to relevant contact information which is provided using VCard | vcard:Kind | BDC\_ResponsibleParty |
| 9 | dct:temporal | The temporal period that the dataset covers. | dct:PeriodOfTime | BDC\_Dataset:temporalCoverage |
| 10 | dct:spatial | Spatial coverage of the dataset. | dct:Location | None |
| 11 | dct:accrualPeriodicity | The frequency at which dataset is published. | dct:Frequency | BDC\_Dataset:updateFrequency |
| 12 | dcat:landingPage | A Web page that can be navigated to in a Web browser to gain access to the dataset, its distributions and/or additional information. | foaf:Document | None |
| 13 | dct:publisher | The entity responsible for making the catalog online. | foaf:Agent | BDC\_Dataset:contactPoint |
| 14 | dcat:theme | The main category of the dataset. A dataset can have multiple themes. | skos:Concept | None |
| 15 | dcat:distribution | Connects a dataset to its available distributions. | dcat:Dataset | BDC\_Dataset:distribution |

**Table IV. dcat:Distribution => BDC\_Distribution**

- Represents a specific available form of a dataset.

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|  | **Property** | **Description** | **Range** | **BDC** |
| 1 | dct:title | A name given to the catalog. | rdfs:Literal | None |
| 2 | dct:description | A free-text account of the catalog. | rdfs:Literal | None |
| 3 | dct:issued | Date of formal issuance (e.g., publication) of the catalog. | rdfs:Literal (ISO 8601) | None |
| 4 | dct:modified | Most recent date on which the catalog was changed, updated or modified. | rdfs:Literal (ISO8601) | None |
| 5 | dct:license | This links to the license document under which the distribution is made available. | dct:LicenseDocument | BDC\_Distribution:dataRight |
| 6 | dct:rights | Information about rights held in and over the distribution. | dct:RightsStatement | BDC\_Distribution:dataRight |
| 7 | dcat:accessURL | A landing page, feed, SPARQL endpoint or other type of resource that gives access to the distribution of the dataset | rdfs:Resource | BDC\_Distribution:accessInformation |
| 8 | dcat:downloadURL | A file that contains the distribution of the dataset in a given format | rdfs:Resource | BDC\_Distribution:accessInformation |
| 9 | dcat:byteSize | The size of a distribution in bytes. | rdfs:Literal typed as xsd:decimal. | BDC\_Distribution:byteSize |
| 10 | dcat:mediaType | The media type of the distribution as defined by IANA. | dct:MediaTypeOrExtent | BDC\_Distribution:dataType |
| 11 | dct:format | The file format of the distribution. | dct:MediaTypeOrExtent | BDC\_Distribution:format |

**Table V. skos:ConcptScheme => BDC\_Domain**

- The knowledge organization system (KOS) used to represent themes/categories of datasets in the catalog.

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|  | **Property** | **Description** | **Range** | **BDC** |
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**Table VI. skos:Concpt => None**

- A category or a theme used to describe datasets in the catalog.

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|  | **Property** | **Description** | **Range** | **BDC** |
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**Table VII. foaf:Agent => BDC\_ResponsibleParty**

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|  | **Property** | **Description** | **Range** | **BDC** |
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